proceq

Ground Penetrating Radars (GPR)

Concrete Scanners

Proceq GP8800, GP8000 & GP8100

See into concrete with extreme clarity

Portfolio

Proceq has been disrupting the GPR industry since 2017 with their revolutionary, ultra-wideband concrete scanners for every application.
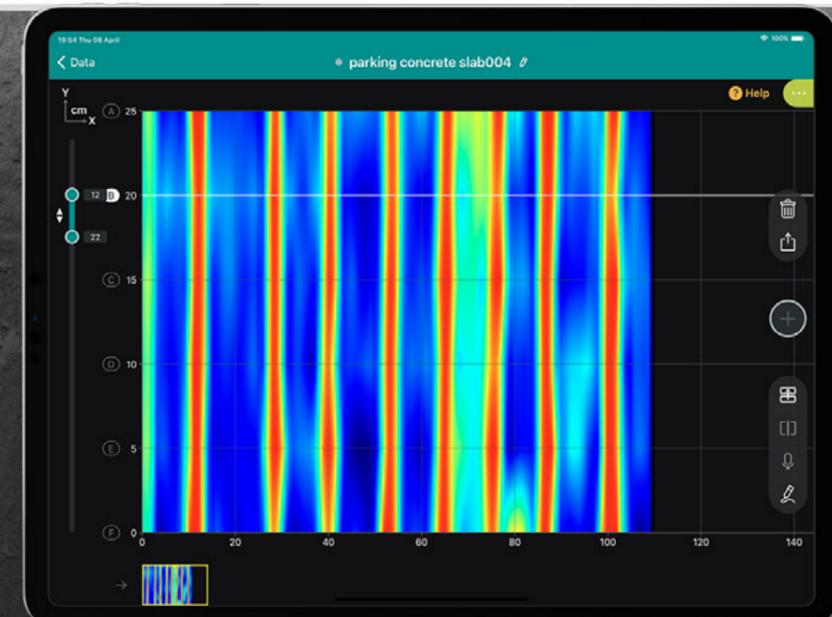
SWISS ✛ MADE
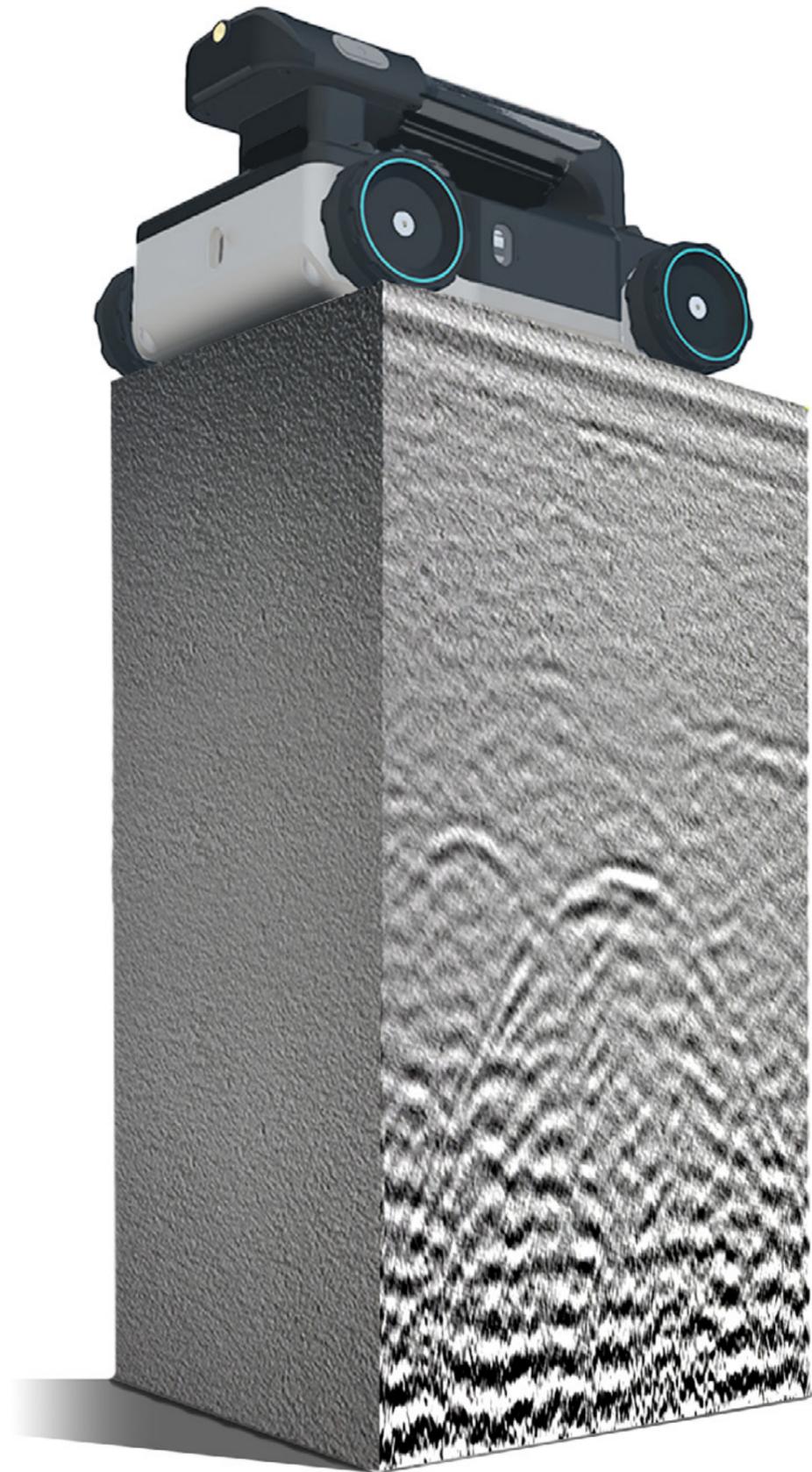
GP8000
Ideal for tunnels, pavements and slabs

GP8800
Ideal for small areas, corners and hard-to-reach spaces

GP8100
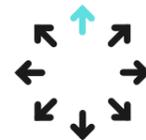Ideal for bridge decks and parking slabs

GP8000

See into concrete up to 1.5 meters / 60 inches

Handheld GPR

Multi-use

Excellent ergonomics to inspect concrete structures with ease and tackle any challenge.

Powerful

The only handheld sensor that enables you to detect objects and rebar in concrete up to 150 cm!

Productive

Immediate high resolution data visualization in 2D, 3D and AR, with fast report creation and sharing.
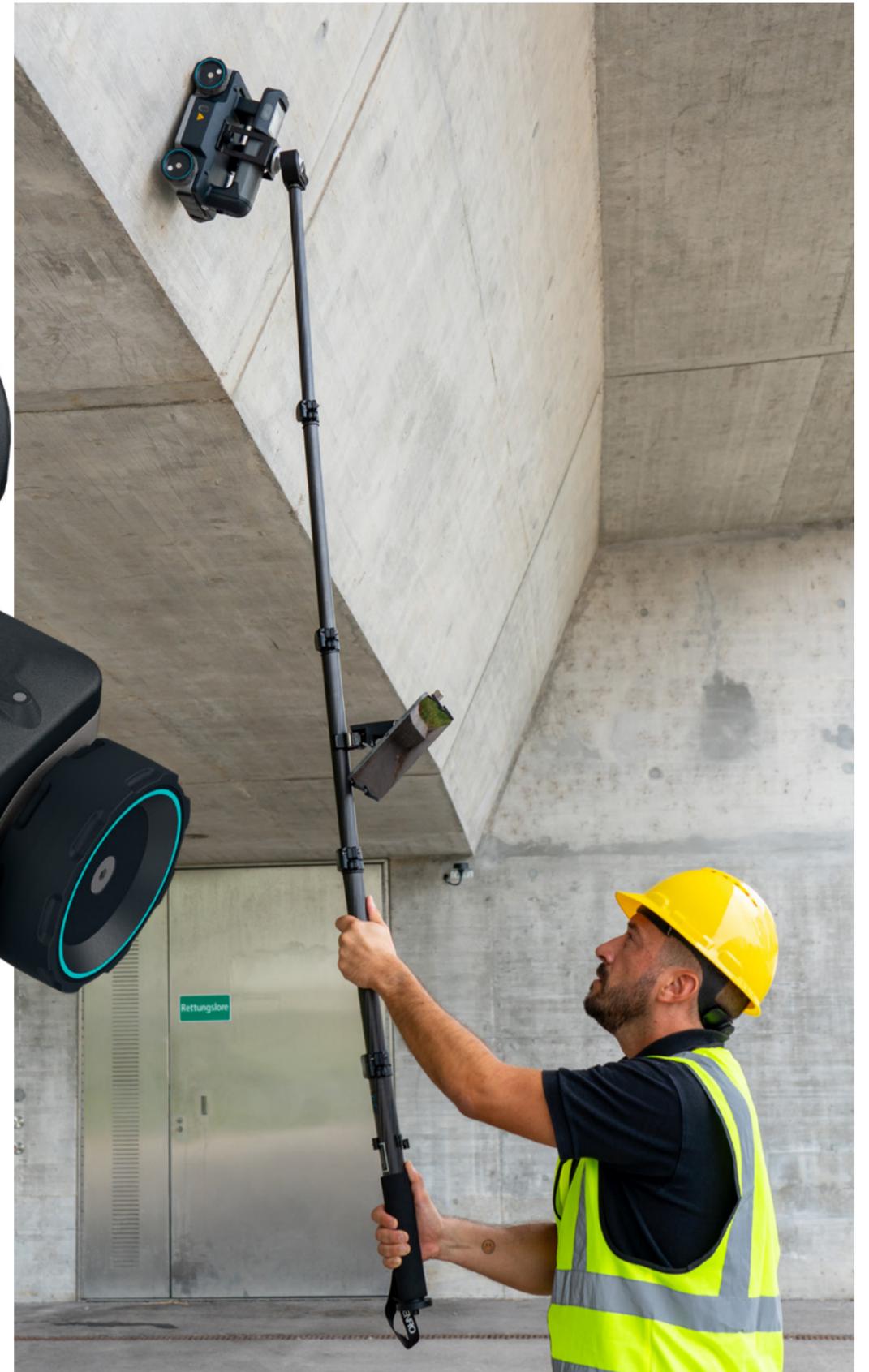
GP8000
Overview

Can be wirelessly controlled by an iPad for productive workflow

Center-mounted handle for maximum comfort during long workdays

SFCW antenna

Live wire detector

Scan on horizontal or vertical surfaces

SWISS + MADE

HW Specs

FC CE UK CA ⌦

GP8000

**1.8 kg /
4 lbs**
(including battery pack)

22.1 x 18 x 14 cm
8.7 x 7.1 x 5.5 in

GP8000 HW specs
Radar technology
Stepped-frequency continuous-wave (SFCW) GPR
Modulated frequency range
200 – 4000 MHz
Penetration depth
150 cm / 60 in
Battery
Flight-safe, removable pack, 8x AA (NiMH)w
Dimensions
22.1 x 18 x 14 cm 8.7 x 7.1 x 5.5 in
Weight
1.8kg / 4 lbs (including battery pack)
Ground clearance
0.8 cm / 0.32 in
Antennas
1
Antenna distance to edge
8.3 cm / 3.27 in
Special features
All-wheel drive with high-traction wheels
Laser light guidance
Connections
Wi-Fi (802.11n) to display unit
Autonomy
3 h

SW Specs

Proceq GPR App

Measurement modes
Line Scan
Area Scan (with Flexible Grid up to 16m2 / 172 ft2)

Review modes
Line scan (B-scan)
A-scan (incl. envelope)
Migrated view
Non-migrated view
Time-Slice view Basic
3D view
AR

Advanced visualization
Time-Slice view Pro
3D view
Augmented Reality (AR)

Reporting
Workspace integration
Automatic Logbook
SEG-Y export
Instant report generation
Share via URL

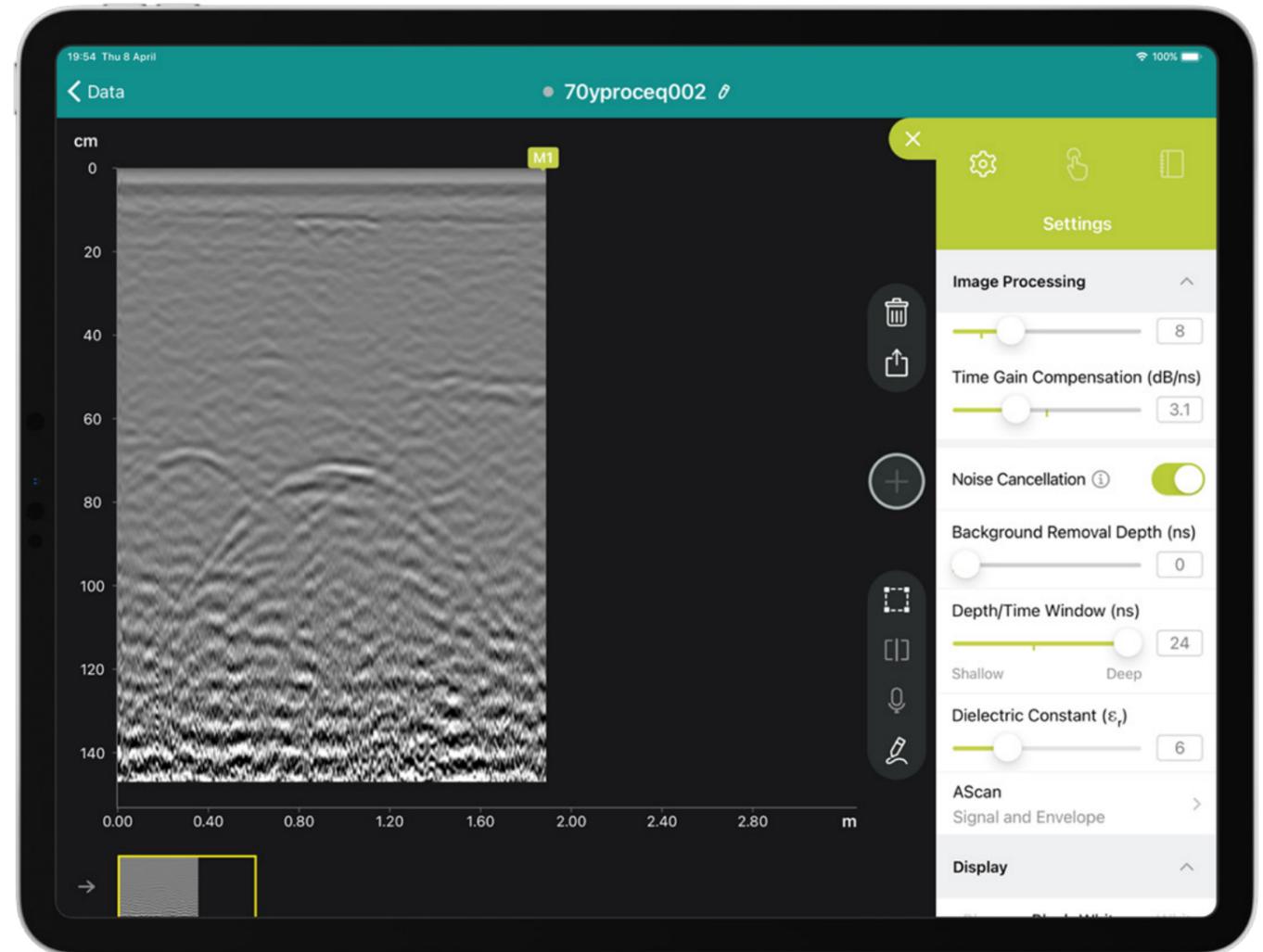| Export formats |
| --- |
| JPG |
| PNG |
| CSV |
| SEGY |
| HTML |

Display Unit Specs*
Latest Apple® iPad recommended (iPad with iOS 13.6 and higher)
Screen size: From 7.9" to 12.9"
Resolution: Up to 2732-by-2048
Memory: Up to 2TB
Weight: Down to 301 g / 10.6 oz
Camera: Up to 12MP Wide and 10MP Ultra Wide
Optional: USB-C, 5G, Face ID

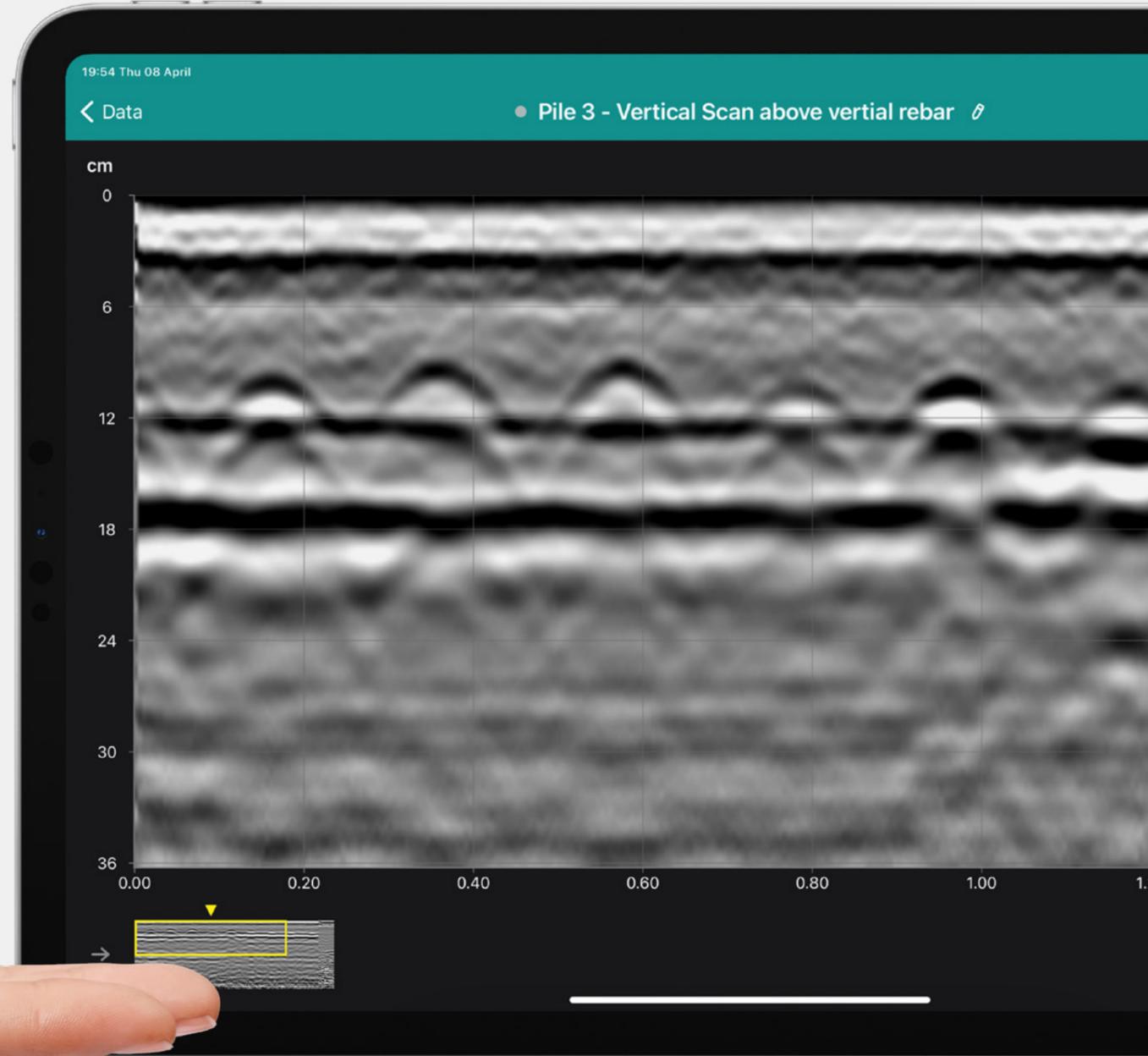| Display Unit Sensors* |
| --- |
| LiDAR Scanner (optional) |
| Three-axis gyro |
| Accelerometer |
| Ambient light sensor |
| Barometer |
| Built-in GPS/GNSS |
| Proceq GPR App | Info & compatibility |

* Depending on iPad model

GP8800
Tiny size, gigantic resolution

Compact GPR

cm

0

6

12

18

24

30

36

0.00   0.20   0.40   0.60   0.80   1.00   1.

High-performance
Superior insights thanks to unparalleled depth and clarity of data from the powerful sensor.
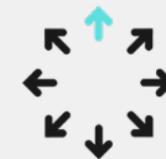
Versatile
Enhanced ergonomics to tackle small and congested areas, curved surfaces and tight corners.

Productive
Immediate high resolution data visualization in 2D, 3D and AR, with fast report creation and sharing.

GP8800
Overview

Super compact design for easy transport

Long-lasting, 8-hour rechargeable battery

SFCW antenna

Wirelessly controlled by the iPad for productive workflow

Flexible wheel for cross-polarization and adapting to congested spaces

SWISS ✚ MADE

HW Specs

FCC CE UK CA

GP8800

770 g / 27 oz
(including new battery pack)

8.9 x 8.9 x 7.6 cm
3.5 x 3.5 x 3 in

GP8800 HW specs	
Radar technology	Stepped-frequency continuous-wave (SFCW) GPR
Modulated frequency range	400 – 6000 MHz
Penetration depth	65 cm / 25.6 in
Battery	Flight-safe, removable pack, 4x AA (NiMH)
Dimensions	8.9 x 8.9 x 7.6 cm 3.5 x 3.5 x 3 in
Weight	770g / 27 oz (Including new battery pack)
Ground clearance	0 cm
Antennas	1
Antenna distance to edge	4.5 cm / 1.77 in
Special features	Wireless wheel, reconfigurable at any time without tools. Cross-polarization (trailing and side-car configurations) USB-C tethering to battery pack/power bank
Connections	WiFi (802.11n) and USBC to display unit
Autonomy	8h

SW Specs

Proceq GPR App

Measurement modes	Display Unit Specs*
Line Scan	Latest Apple® iPad recommended (iPad with iOS 13.6 and higher)
Area Scan (with Flexible Grid up to 16m2 / 172 ft2)	Screen size: From 7.9" to 12.9"

Review modes	
Line scan (B-scan)	Resolution: Up to 2732-by-2048
A-scan (incl. envelope)	Memory: Up to 2TB
Migrated view	Weight: Down to 301 g / 10.6 oz
Non-migrated view	Camera: Up to 12MP Wide and 10MP Ultra Wide
Time-Slice view Basic	Optional: USB-C, 5G, Face ID
3D view	**Display Unit Sensors***
AR	LiDAR Scanner (optional)

Advanced visualization	
Time-Slice view Pro	Three-axis gyro
3D view	Accelerometer
Augmented Reality (AR)	Ambient light sensor

Reporting	
	Barometer
Workspace integration	Built-in GPS/GNSS
Automatic Logbook	Proceq GPR App	Info & compatibility
SEG-Y export	
Instant report generation	
Share via URL	

Export formats
JPG
PNG
CSV
SEGY
HTML

* Depending on iPad model

GP8100
Large area concrete scanner

Ultra-wideband GPR array

Super-productive
Unrivaled scanning efficiency with 25cm effective scan width and 80cm penetration depth.
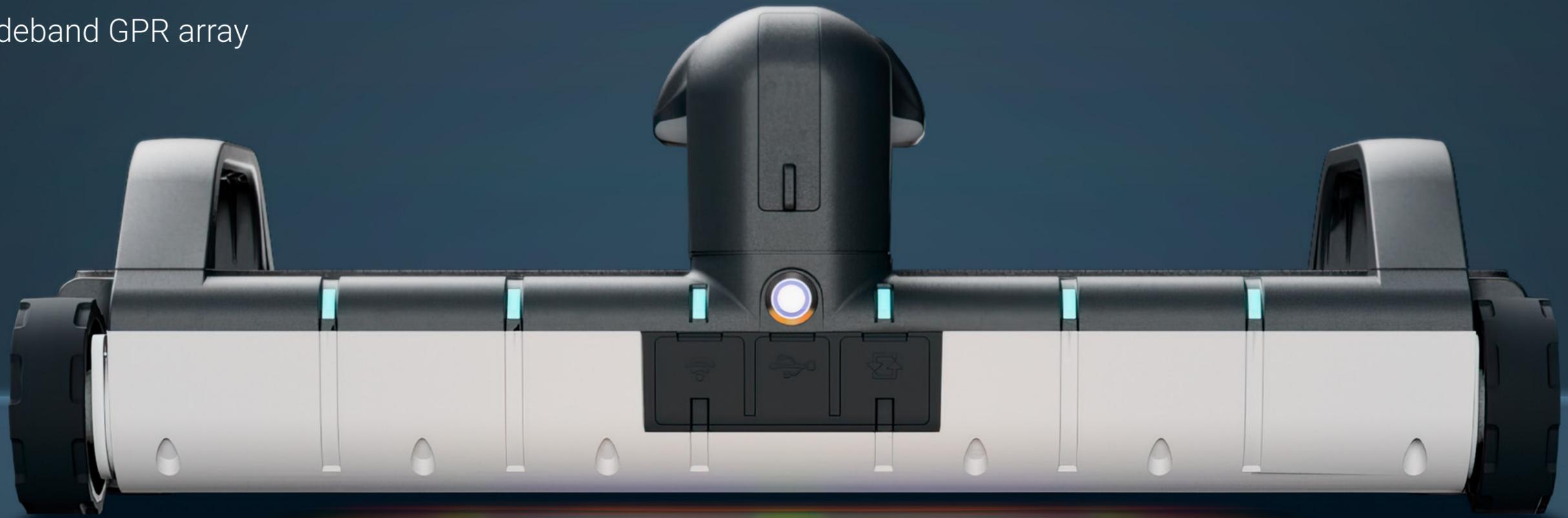
Accurate
The high scan rate of 1'200 scans/s enables a very dense GPR data collection in only one superline scan.

Revolutionary
Fast detection of objects of any size with Superline scan view for never-seen-before data clarity.

Overview

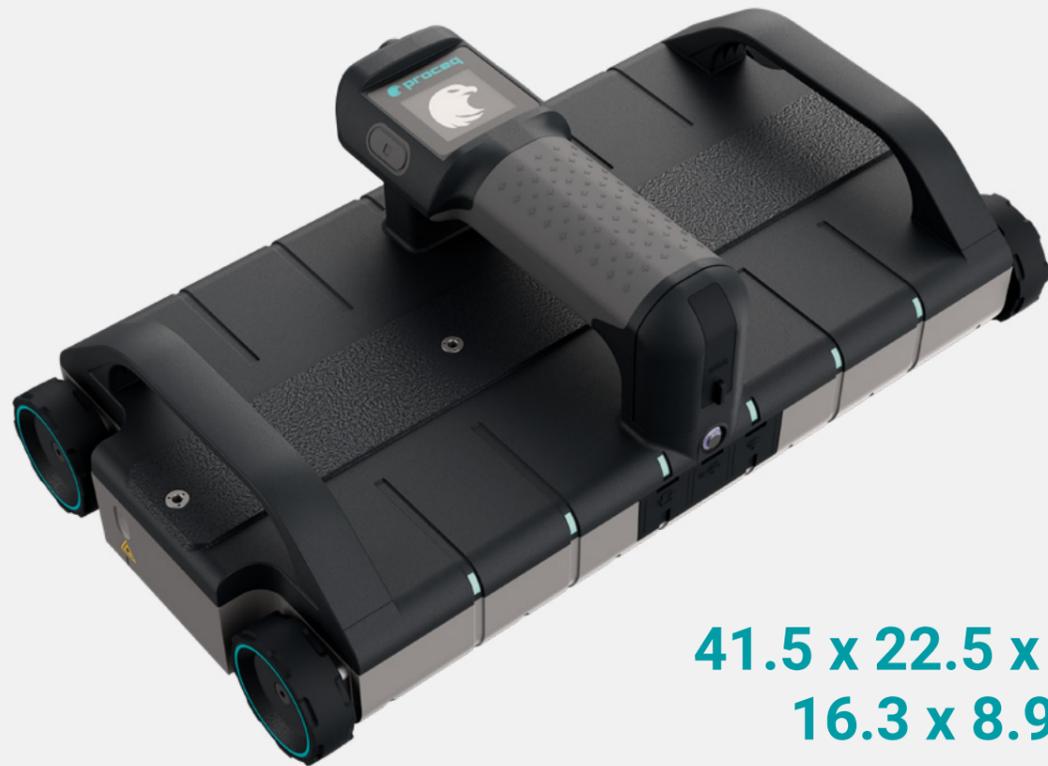Flight safe battery pack
for easy travel

Laser to indicate the
scan direction & the
measurement center point

Center and side handles
for maximum comfort
during long workdays

SFCW Antenna

LED for each line in
the Superline Scan

SWISS ✛ MADE

HW Specs

FC CE UK CA

GP8100

**3.3 kg /
7.3 lbs**
(including battery pack)

41.5 x 22.5 x 13.2 cm
16.3 x 8.9 x 5.2 in

GP8100 HW specs	
Radar technology	
Stepped-frequency continuous-wave (SFCW) GPR	
Modulated frequency range	
400 – 4000 MHz	
Speed & resolution	
1200 scans/s	
Penetration depth	
80 cm / 31.5 in	
Battery	
Flight-safe, removable pack, 8x AA (NiMH)w	
Dimensions	
41.5 x 22.5 x 13.2 cm 16.3 x 8.9 x 5.2 in	
Weight	
3.3 kg / 7.3 lbs (Including battery pack)	
Ground clearance	
0.8 cm / 0.32 in	
Antennas	
6	
Antenna distance to edge	
8.3 cm / 3.27 in	
Special features	
All-wheel drive with high-traction wheels and laser light guidance	
USB-C tethering to power bank	
Connections	
Wi-Fi (802.11n) to display unit	
USB-C for Wi-Fi restricted areas	
Autonomy	
3h (Up to 8 hours with off-the-shelf 10'000 mAh power bank, not included)	

SW Specs

Proceq GPR App

Measurement modes
Superline Scan (1000m / 3281 ft)

Line Scan, Superline Scan (1000m / 3281 ft)

Area Scan (with Flexible Grid up to 100m2 / 1076ft2)*

Review modes
Superline scan

Line scan (B-scan), Superline scan

A-scan (incl. envelope)

Migrated view

Non-migrated view

Split view

Time-Slice view Basic

3D view

AR

Advanced visualization
Time-Slice view Pro

3D view

Augmented Reality (AR)

Reporting
Workspace integration

Automatic Logbook

SEG-Y export

Instant report generation
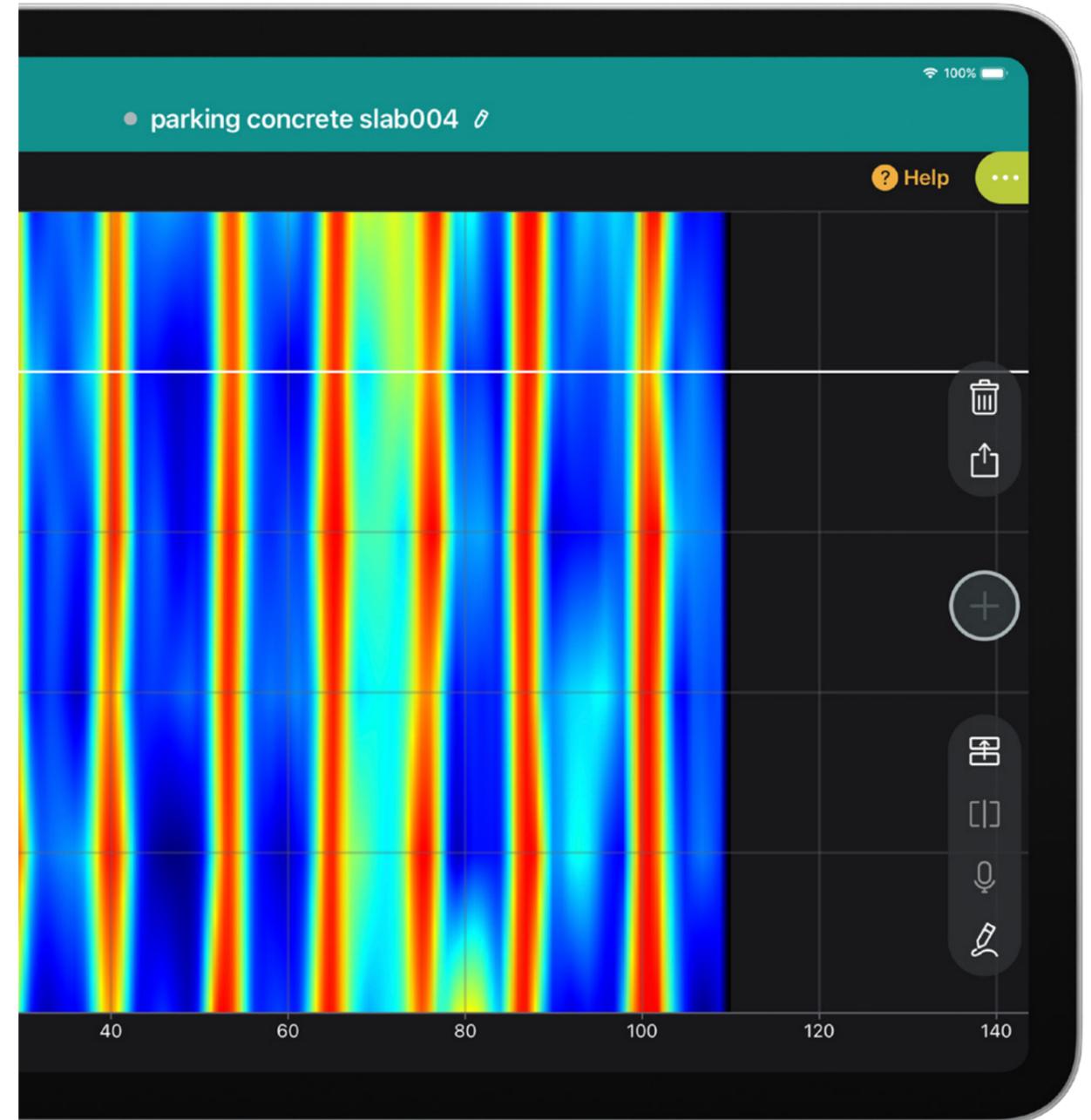
Share via URL

Export formats
JPG

PNG

CSV

SEGY

HTML

Display Unit Specs*
Latest Apple® iPad recommended
(iPad with iOS 13.6 and higher)

Screen size: From 7.9" to 12.9"

Resolution: Up to 2732-by-2048

Memory: Up to 2TB

Weight: Down to 301 g / 10.6 oz

Camera: Up to 12MP Wide and 10MP Ultra Wide

Optional: USB-C, 5G, Face ID

Display Unit Sensors*
LiDAR Scanner (optional)

Three-axis gyro

Accelerometer

Ambient light sensor

Barometer

Built-in GPS/GNSS

Proceq GPR App | Info & compatibility

* Depending on iPad model

Technology

Stepped Frequency Continuous Wave (SFCW) GPR

Proceq introduced the world's first handheld and wireless SFCW GPR for concrete scanning in 2017

Detect objects of all sizes and depths

Gain a holistic view of shallow small objects and deep big objects in one scan with the widest bandwidth available.
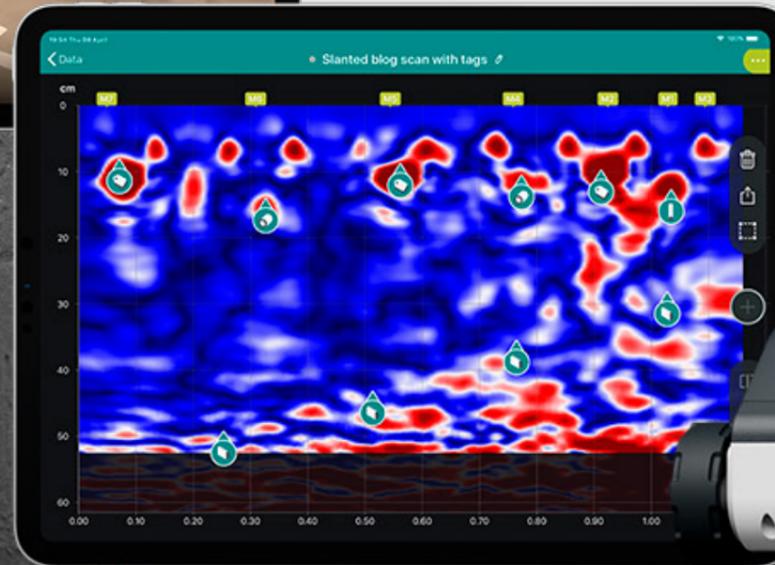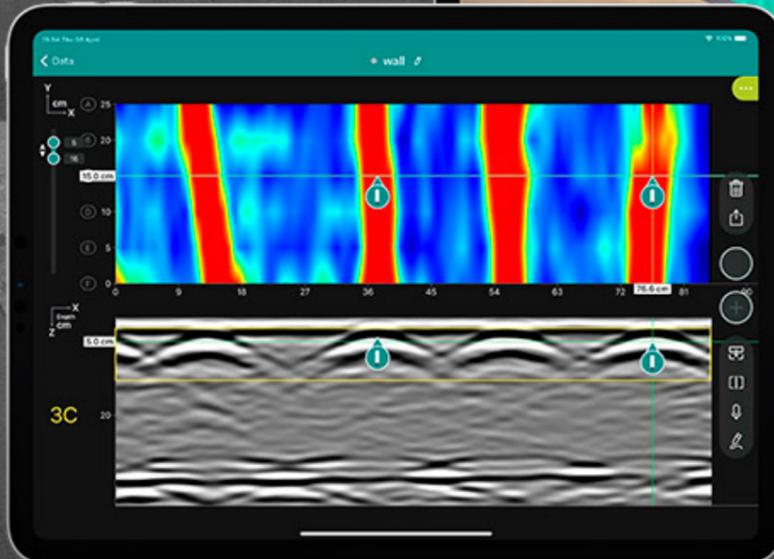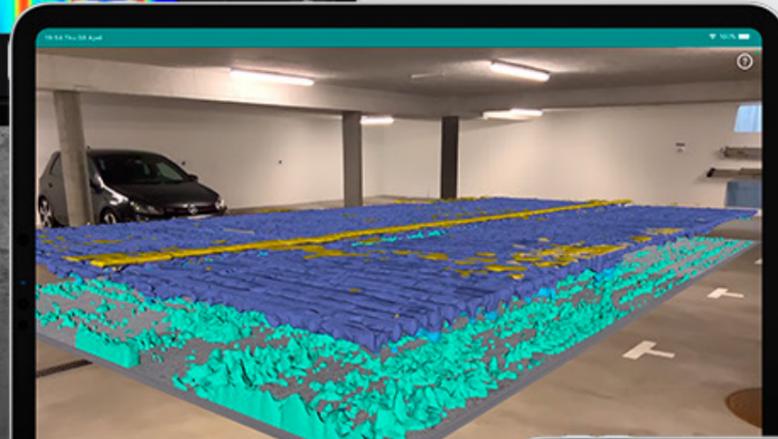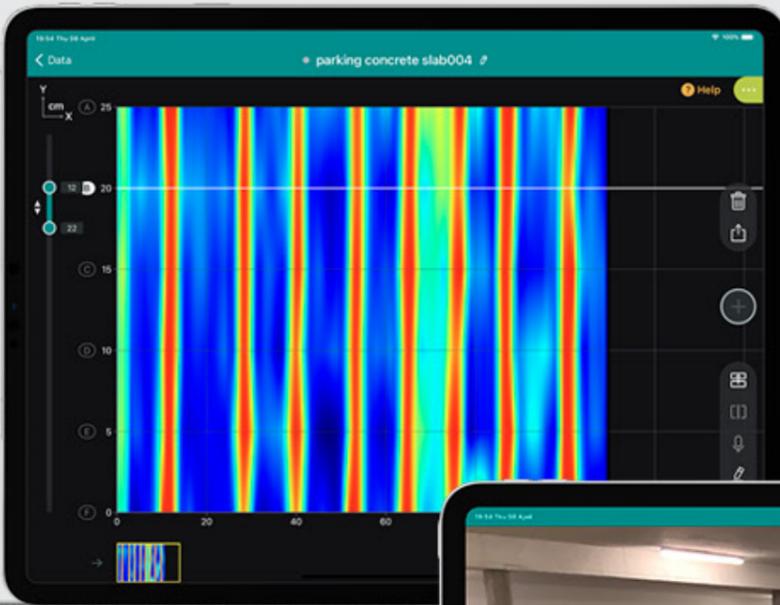
One antenna for ALL frequencies

With only one antenna, you can cover the complete frequency spectrum from low-to-high frequencies, saving you countless hours in the field.

SWISS ✛ MADE

Software

Superior visualization

Look deep into concrete onsite with time-slice view, 3D view and incredible Augmented Reality views.
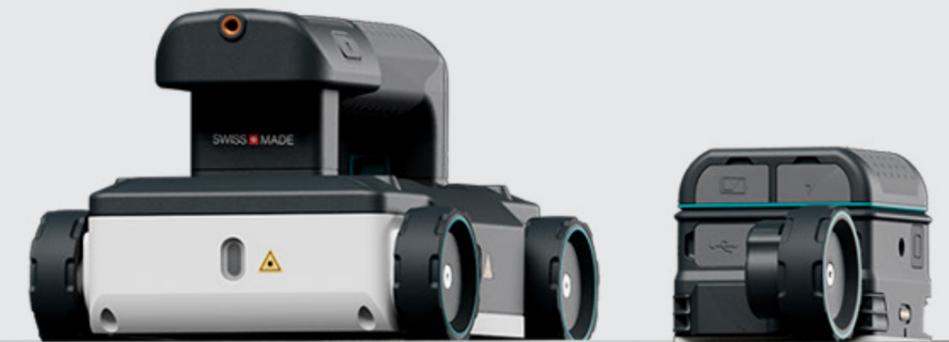
Advanced workflows

Easy to use app with intuitive gestures and handy features to help you get more done in the field.

Instant sharing

Share your field project data and reports to your colleagues and clients, anywhere at anytime.

Download on the App Store

Software

POST-PROCESS
GPR Insights

Deliver more
Easily develop **Deterioration Maps** to identify areas with a high probability of being deteriorated.

Gain more insights
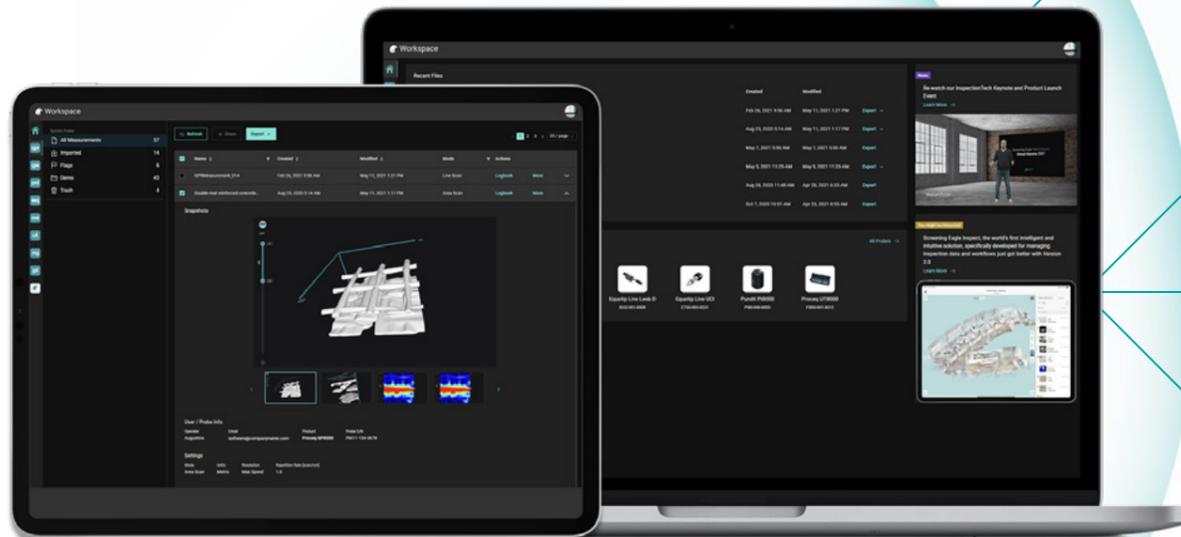Organize how to see the data with **advanced 2D and 3D visualization** modes to not miss any detail.

Boost productivity
Save hours of time with **AI-assisted rebar counting** and easy to use filters to analyze raw data.

Workspace

Easily access, manage and share your data from any web browser.

Collect & auto-sync data onsite

- Your data is automatically synced from your Proceq sensors to Workspace.
- Data can also be viewed in real-time by colleagues and stakeholders offsite.

Analyze data in detail

- Visualize your data in different ways with 2D, 3D, snapshot, raw, and statistic views.
- Create stunning deliverables for clients and generate the raw files for post-processing.

Share, manage & archive data

- Organize your data easily and collaborate in one click.
- Share data as CSV, HTML, JSON, DXF, or SEGY with anyone on or off Workspace.
- Data is stored securely and can be accessed safely via a URL link.

Generate fast reports

- Workspace enables rapid reporting with all views downloadable including 3D graphics and AR overlays.
- Generate reports in a few clicks, including all measurement info such as snapshots, markers and tags, and logbook pictures.

Save time & costs

- Cut down on unbillable back office hours with centralized data, easy search tools, and organized files.
- Eliminate data silos and report bottlenecks with seamless data sharing - no storage devices needed.

Applications
GPR

Object and utility location

Prevent damage before cutting, drilling or coring concrete, and locate objects such as rebar, PT ducts, utility pipes, power conduits and live wires with ease.
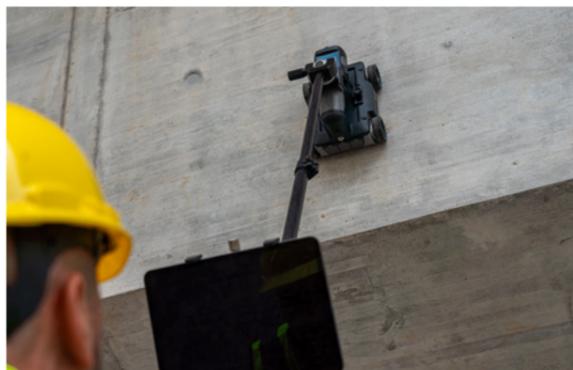
Structural assessment

Deliver fast and efficient inspection of bridges, buildings, tunnels, pavements, and other critical infrastructure above and below ground.

Concrete quality inspections

Detect cracks, voids and cavities in new and existing concrete structures with high precision non-destructive testing.
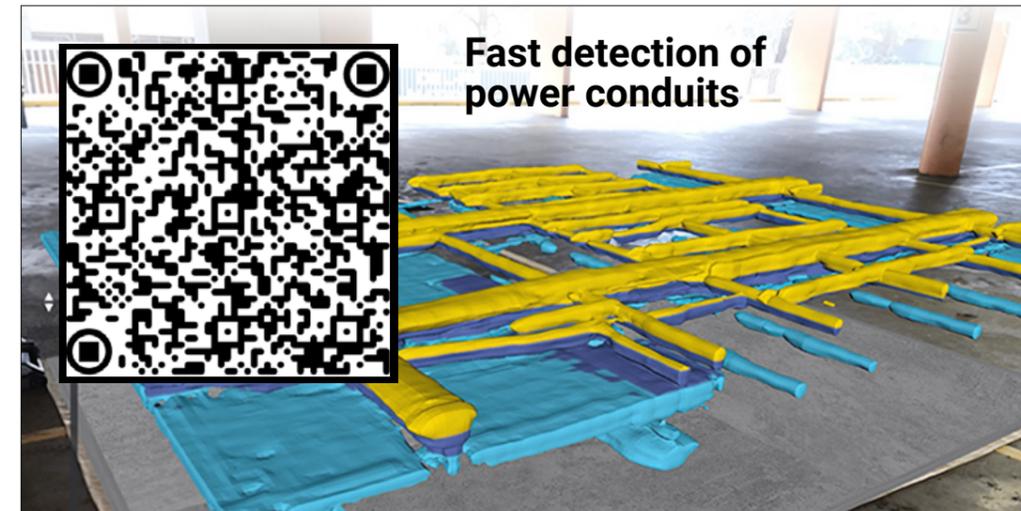
Applications

CASE STUDIES

Click on image or read QR code

Rebar location on large concrete pier

Fast detection of power conduits

Efficient wall scanning at Portland Oregon International Airport

Comprehensive bridge assessment

Company

Screening Eagle Technologies is a connected ecosystem of sensors and software for intelligent inspection of the built environment.

Proceq, a world-leading manufacturer of non-destructive testing technologies since 1954, is a core brand of Screening Eagle Technologies. Our mission is to protect the built world and enable a society that is safe for all, is of high quality, operates reliably and is truly sustainable. We aim to democratize Built World Data, empower service professionals with easy-to-operate technology, and allow asset owners to make data-driven investment decisions. Together, we contribute to a society that gives back more to nature than it consumes, creating a built world for future generations to enjoy and thrive within.

HEADQUARTERS

Screening Eagle Technologies AG
Ringstrasse 2
8603 Schwerzenbach - Zurich
Switzerland
Headquarters: +41 43 355 38 00
Sales Europe: +41 43 588 34 92
Support Europe: +41 43 508 17 02

EMEA

Proceq AG
Part of Screening Eagle
Ringstrasse 2
8603 Schwerzenbach – Zurich
Switzerland
Sales Europe: +41 43 588 34 92
Support Europe: +41 43 508 17 02

Screening Eagle UK Limited
Bedford i-lab
Stannard Way
Priory Business Park
Bedford
MK44 3RZ
United Kingdom
T +44 1234 923816

Proceq Middle East and Africa
Part of Screening Eagle
Sharjah Airport International
Free Zone, P.O.Box: 8365
United Arab Emirates
T +971 6 557 8505

APAC

Screening Eagle Singapore Pte. Ltd.
1 Fusionopolis Way
Connexis South Tower #20-03
138632 Singapore
Singapore
T +65 6331 4151

Proceq Trading Shanghai Co. Ltd.
Part of Screening Eagle
Room 3A No.
315 Guangyuan West Road
Xuhui District, Shanghai
China, 200030
T +86 21 6317 7479
M +86 152 2162 8766

AMER

Screening Eagle USA, Inc.
117 Corporation Drive
Aliquippa, PA 15001
United States
T +1 724 512 0330

ScreeningEagle.com

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