



Proceq[®] GS8000

Subsurface Detection & Mapping
with SFCW ground penetrating radar technology



Resolution & depth

Superior clarity of data at different depths thanks to the unique Swiss Made ultra-wideband radar technology, optimized for small, closely-spaced and deep targets alike.



Versatility

Scan on flat or rough terrains, get real-time accurate GNSS positioning and adjust display settings in real-time for an optimal on-site interpretation of underground findings.



User Experience

End-to-end workflows designed for experts and non-experts alike, from the most intuitive data acquisition to instantly shareable deliverables. Access your data from anywhere, anytime.

Proceq GS Live App



Proceq GS8000



Model	Pro
Applications	Utility strike prevention, subsurface utility engineering (SUE), asset inspection (bridges, foundations, roads), geophysical investigations, archeology, forensics, etc.
Software sourcing option	Subscription
Eagle Care	●
Cloud synchronization	●
Cloud sharing via URL	●
Cloud-enabled Logbook	●
Cloud-based SEG-Y export	●
Cloud-based Map & Report generation	●
GNSS position augmentation via SSR ¹	●
CAD & GIS-compatible	●

Software Features

A-scan, incl. envelope	●
Line scan, non-migrated view	●
Line scan, migrated view	●
Area scan	●
Time Slice View Pro	●
Artificial Intelligence	●
Augmented Reality	●
Adjustable display settings	Color palette, linear gain, time gain compensation, background removal, multi-layer dielectric constant
On-site annotations	Tags, marks, photos, notes, voice notes
Max. scan length	Up to 15 Km 9.3 mi
Max. scan area size	Up to 80 x 80 m 260 x 260 ft

- ¹ service available in Europe & USA; iPad needs active Internet connection
- ² metallic object buried at 0.3 m | 1 ft, in average soil conditions
- ³ depending on soil conditions
- ⁴ at 50 mm scan interval
- ⁵ subject to atmospheric conditions, satellite geometry, observation time, etc.
- ⁶ batteries and tablet not included
- ⁷ contains 8x rechargeable C (NiMH) batteries; power bank supports USB-PD
- ⁸ running an up-to-date iOS version; recommended: iPad Pro WiFi + Cellular models

iPad is a trademark of Apple Inc.; iOS is a registered trademark of Cisco in the US and is used by Apple under license.

Soon available in:



Sensors

Radar technology	Stepped-Frequency Continuous-Wave GPR
Modulated frequency range	40 – 3440 MHz
Effective bandwidth	3200 MHz
Min. detectable target size ²	1 cm 0.4 in
Max. depth penetration ³	10 m (typ. 6 m) 33 ft (typ. 20 ft)
Scan rate	500 Hz
Spatial interval	Up to 100 scans/m
Acquisition speed ⁴	Up to 80 Km/h 50 mph
GNSS receiver	Multiband GPS + Glonass + Galileo + Beidou
GNSS real-time 3D accuracy ⁵	Typ. 1 - 5 cm 0.5 - 2 in
GNSS initialization time	Typ. 5 - 30 s
Wheel encoders	2

Operating parameters

Configuration	Wireless integrated push & pull cart
Weight ⁶	23 Kg
Dimensions	610 x 570 x 380 mm
Ground clearance	0-25 mm, adjustable
Sealing	IP67
Power consumption	11 W
Autonomy	Full working day, removable flight-safe battery pack & off-the-shelf power bank ⁷
Operating temperature	-10° to 50°C 14° to 122° F
Operating humidity	<95% RH, non-condensing
Connectivity	WiFi, Ethernet, USB-A, USB-B, USB-C, Lemo

Display and processing unit (not included)

Model	Any ⁸ iPad® or iPad Pro®
CPU	6-core, 64-bit
Screen technology	Liquid or Retina Display
Screen size	7.9" to 12.9"
Screen resolution	Up to 2732 x 2048 pixels and 326 ppi
Screen type	LED-backlit multi-touch & IPS technology
Weight	Down to 301 g 10.6 oz
Storage capacity	Up to 1 TB
Connectivity	Wi-Fi® (802.11a/b/g/n), LTE/5G
Built-in sensors	Multiple Cameras, GPS/GNSS, LIDAR scanner, 3-axis gyro, accelerometer,
Voice recognition	Siri



Present in +100 countries, we serve inspectors and engineers all over the world with the most comprehensive range of inspection tech solutions, combining intuitive software and Swiss-manufactured sensors.

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