



Proceq GPR Subsurface **GS8000**

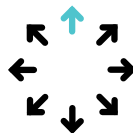
The one solution for locating objects and mapping the underground world using SFCW ground penetrating radar technology.



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 3D positioning and adjust display settings in real-time for an optimal interpretation of data. All included in the solution.



User Experience

End-to-end workflows, all the way from the most intuitive data acquisition to instantly shareable deliverables. Access your data from anywhere, anytime.



Software / Workspace App



Processing Unit / Sensor

Acquisition modes	Line Scan, Grid Scan
View modes	A-scan, Line Scan non-migrated, Line Scan migrated, Time Slice View, 3D, Augmented Reality
On-site annotations	Tags, marks, photos, notes, voice notes Color palette, linear gain, time gain compensation,
Adjustable display settings	background removal, multi-layer dielectric constant, deep focus filter, time window, frequency filter
Data options	Cloud storage, SEG-Y export, HTML export, KML export
Display unit	Any iPad® or iPad Pro® ¹ Recommended: iPad Pro WiFi + Cellular Screen resolution: up to 2732 x 2048 pixels Storage capacity: up to 1 TB
Max. scan length	Up to 15 Km 9.3 mi
Max. scan area size	Up to 80 x 80 m 260 x 260 ft

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Radar technology	Stepped-frequency Continuous-Wave GPR
Modulated frequency range	40 - 3440 MHz ²
Effective bandwidth	3200 MHz ³
Min. detectable target size	1 cm 0.4 in ⁴
Max. depth penetration	10 m 33 ft ⁵
Scan rate	500 Hz
Spatial interval	Up to 100 scans/m
Acquisition speed	Up to 80 Km/h 50 mph ⁶
GNSS receiver	Multiband GPS + Glonass + Galileo + Beidou SSR augmentation ⁷ / RTK-compatible Dimensions: 145 x 145 x 70 mm Weight: 0.7 Kg, 4x AA-batteries included
GNSS real-time 3D accuracy	Typ. 1 - 5 cm 0.5 - 2 in ⁸
GNSS initialization time	Typ. 5 - 30 s
Wheel encoders	2
Configuration	Wireless integrated push & pull cart
Weight	24 Kg ⁹
Dimensions	61 x 57 x 38 cm
Antenna positions	Ground-coupled with dual-axis floating Air-coupled with 25 mm clearance
Ingress protection (IP) / sealing	IP65
Power consumption	11 W
Autonomy	Full working day, removable flight-safe battery pack & off-the-shelf power bank ¹⁰
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

¹ Running an up-to-date iOS version; recommended models: iPad Pro® WiFi + Cellular 11" or 12.9"

² For USA & Canada: 200 - 3440 MHz

³ For USA & Canada: 3000 MHz

⁴ Metallic object buried at 0.3 m / 1 ft, in average soil conditions

⁵ Depending on soil conditions, typ. 6 m / 20 ft in average soil conditions. For USA & Canada: 12 ft in average soil conditions

⁶ At 50 mm scan interval. For USA & Canada: Up to 35 km/h / 22 mph

⁷ Service available in Europe & USA; needs an active Internet connection on the iPad

⁸ Via NTRIP RTK or SSR corrections; the achieved accuracy is subject to atmospheric conditions, satellite geometry, observation time, etc.

⁹ Batteries and tablet not included

¹⁰ Contains 8x rechargeable NiMH C-batteries; recommended power bank: USB-PD compatible 12V/>=1.25A or 15V/>=1A

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