



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 GPR Subsurface 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
Cloud synchronization	●
Cloud sharing via URL	●
Cloud-enabled Logbook	●
Cloud-based SEG-Y export	●
Cloud-based Report generation	●
GNSS position augmented via SSR ¹	●

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, deep focus filter, time window
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, enabled via new software version release targeted by end of 2020; needs an active Internet connection on the iPad

² For availability and regulatory approval of this product in your market, please check with your regional Proceq subsidiary or local dealer

³ Metallic object buried at 0.3 m | 1 ft, in average soil conditions

⁴ Depending on soil conditions, typ. 6 m / 20 ft in average soil conditions

⁵ at 50 mm scan interval

⁶ Via NTRIP RTK or SSR corrections, compatible with new software version release targeted by end of 2020; the achieved accuracy is subject to atmospheric conditions, satellite geometry, observation time, etc.

⁷ Batteries and tablet not included

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

⁹ Running an up-to-date iOS version; recommended models: iPad Pro® WiFi + Cellular 11" or 12.9"

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Sensors

Radar technology	Stepped-Frequency Continuous-Wave GPR
Modulated frequency range ²	40 – 3440 MHz
Effective bandwidth	3200 MHz
Min. detectable target size ³	1 cm 0.4 in
Max. depth penetration ⁴	10 m 33 ft
Scan rate	500 Hz
Spatial interval	Up to 100 scans/m
Acquisition speed ⁵	Up to 80 Km/h 50 mph
GNSS receiver	Multiband GPS + Glonass + Galileo + Beidou
GNSS real-time 3D accuracy ⁶	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 ⁷	24 Kg
Dimensions	610 x 570 x 380 mm
Antenna positions	Ground-coupled with dual-axis floating Air-coupled with 25 mm clearance
Sealing	IP65
Power consumption	11 W
Autonomy	Full working day, removable flight-safe battery pack & off-the-shelf power bank ⁸
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 iPad® or iPad Pro® ⁹
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

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