



# 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
<b>Applications</b>	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 <sup>1</sup>	●
<b>Software Features</b>	
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

<sup>1</sup> Service available in Europe & USA, enabled via new software version release targeted by end of 2020; needs an active Internet connection on the iPad  
<sup>2</sup> For availability and regulatory approval of this product in your market, please check with your regional Proceq subsidiary or local dealer  
<sup>3</sup> Metallic object buried at 0.3 m | 1 ft, in average soil conditions  
<sup>4</sup> Depending on soil conditions, typ. 6 m / 20 ft in average soil conditions  
<sup>5</sup> at 50 mm scan interval  
<sup>6</sup> 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.  
<sup>7</sup> Batteries and tablet not included  
<sup>8</sup> Contains 8x rechargeable NIMH C-batteries; recommended power bank: USB-PD compatible 12V/≥1.25A or 15V/≥1A  
<sup>9</sup> 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 <sup>2</sup>	40 – 3440 MHz
Effective bandwidth	3200 MHz
Min. detectable target size <sup>3</sup>	1 cm   0.4 in
Max. depth penetration <sup>4</sup>	10 m   33 ft
Scan rate	500 Hz
Spatial interval	Up to 100 scans/m
Acquisition speed <sup>5</sup>	Up to 80 Km/h   50 mph
GNSS receiver	Multiband GPS + Glonass + Galileo + Beidou
GNSS real-time 3D accuracy <sup>6</sup>	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 <sup>7</sup>	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 <sup>8</sup>
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® <sup>9</sup>
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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