

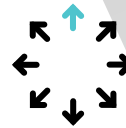
Subsurface GPR | GS8000

The all-in-one solution for detecting objects and mapping the underground world using SFCW ground penetrating radar technology.



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.



Versatility

No methodology constraints and real time 2D & 3D data visualization of the scanned subsurface, for an optimal interpretation on site, no matter the application.



Accuracy & Resolution

Superior clarity of data at different depths thanks to the unique Swiss Made ultra-wideband radar technology, with high-accuracy geolocation in local coordinates.

Proceq GS8000 is an all in one **Sub-Surface GPR** for detecting objects and mapping the underground world using **SFCW ground penetrating radar technology**.

Due to effective **ultra-wide bandwidth (3200 MHz³)** & deeper **depth penetration upto 10 meters**, The GS8000 ground penetrating radar is an ideal solution for Utility strike prevention, Subsurface utility engineering (SUE), Underground 3D Reality Capture, Asset inspection & Geophysical investigations / Archaeology / Forensics / Precision Agriculture.

The GS8000 GPR allows underground utility scanning & provide **3D image of the subsurface** objects underground upto **1cm size of objects** which makes it a preferred GPR for utility scanning.

The utility scanning GPR offers **real time 2D & 3D data visualization** of the scanned subsurface for an optimal interpretation on site

The Proceq GS8000 GPR offers cross polarization of data which allows to see both metallic target & non-metallic targets cleaner as per the requirement.

The sub surface scanning GPR has cloud storage for GPR measurements & post-processing of SEG-Y files exported data. Integrated with Mobile App, The SFCW GPR makes data accessible from anywhere, anytime.

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Features :

- Intuitive real-time visualization in 2D and 3D
- Superior data clarity, accurately geo-referenced
- Access to your data from anywhere, anytime



Specifications :

Software / Workspace App	
Acquisition modes	Line Scan, Area Scan, Free Path
View modes	A-scan, Line Scan non-migrated, Line Scan migrated, Time Slice View, Map View, 3D, Augmented Reality
On-site annotations	Tags, markers, points of interest, lines, photos, notes, voice notes, markups
Adjustable display settings	Color palette, linear gain, time gain compensation, background removal, multi-layer dielectric constant, time window, noise cancellation filter, frequency filter, low pass filter, slice depth, slice thickness
Data options	Cloud storage, SEG-Y export, HTML export, KML export, DXF export, SHP export
Display unit	Any iPad® or iPad Pro® Recommended: iPad Pro WiFi+Cellular (M1) 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 grid size	Up to 80 x 80 m 260 x 260 ft
Sensor	
Radar technology	Stepped-frequency Continuous-Wave GPR
Modulated frequency range	40 – 3440 MHZ
Effective bandwidth	3200 MHZ
Min. detectable target size	1 cm 0.4 in
Max. depth penetration	10 m 33 ft
Scan rate	500 Hz
Spatial interval	Up to 100 scans/m
Acquisition speed	Up to 80 Km/h 50 mph
GNSS receiver	Multiband GPS + Glonass + Galileo + Beidou SSR augmentation / 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
GNSS initialization time	Typ. 5 - 30 s
Wheel encoders	2
Configuration	Wireless integrated push & pull cart
Weight	24 Kg
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 supply	Removable flight-safe battery pack Off-the-shelf power bank
Autonomy	3.5 hours Full working day
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