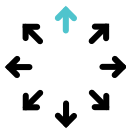




Subsurface Mapping GPR **GS8000**

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



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.



User Experience

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



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® ¹ 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

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Processing Unit / Sensor

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 supply	Removable flight-safe battery pack ¹⁰ Off-the-shelf power bank ¹¹
Autonomy	3.5 hours Full working day ¹²
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 C-Type NiMH batteries

11 USB-C PD power bank with max. dimensions: W 85mm x H 28mm"; recommended power: 12V/≥=1.25A or 15V/≥=1A

12 Recommended battery capacity: >4500 mAh | Recommended power bank capacity: >20000 mAh

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