Proceq GPR Subsurface

GS8000

The all-in-one 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 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**
- Tabs, markers, points of interest, lines, photos, notes, voice notes, markers

**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

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### Processing Unit / 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 Kn/h | 50 mph

**GNSS receiver**
- Multiband GPS + Gloness + 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°C to 50°C | 14°F to 122°F

**Operating humidity**
- <95% RH, non-condensing

**Connectivity**
- WiFi, Ethernet, USB-A, USB-B, USB-C, Lemo

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1. Running on an up-to-date iOS version; recommended models: iPad Pro/6 11” or 12.9”
2. For USA & Canada: 200 – 3496 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 10-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 x D 44mm; recommended power: 12V=1.25A or 15V=1A
12. Recommended battery capacity: >4500 mAh | Recommended power bank capacity: >20000 mAh

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