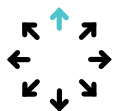




Subsurface Mapping GPR GS8000

The most efficient real-time workflow and technology to scan and digitize the subsurface



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.



Proceq GPR Subsurface App

Tech Specs

| | |
|---------------------|---|
| Measurements modes | Line Scan |
| | Grid Scan |
| | Free Path |
| | |
| Visualization modes | A-scan |
| | Line Scan |
| | Line Scan migrated |
| | Time Slice View |
| | Map View |
| | Augmented Reality |
| On-site annotations | Tags |
| | Markers |
| | Photos |
| | Points of interest |
| | Voice notes |
| | Markups |
| | Linework |
| | |
| Display settings | Slice depth and thickness |
| | Auto / linear / time gain |
| | Background removal |
| | Multi-layer dielectric constant |
| | Time window |
| | Noise cancellation filter |
| | Frequency filter |
| | Low pass filter |
| | Color palette |
| | Object layers |
| Reporting | Workspace integration |
| | Automatic logbook |
| | Instant map / drawing generation |
| | Instant report generation |
| | Share via url |
| | |
| Export format | SEG-Y |
| | DXF |
| | SHP |
| | KML |
| | HTML |
| | |
| Coordinate System | EPSG global database |
| | Local grid models |
| | Geoid models |
| | |
| Languages | English |
| | Spanish |
| | French |
| | German |
| | Italian |
| | Chinese |
| Display unit | Any iPad® or iPad Pro® ¹ |
| | Recommended: iPad Pro WiFi + Cellular |
| | Screen resolution: up to 2732 x 2048 pixels |
| | Storage capacity: up to 1 TB |

iPad is a trademark of Apple Inc.; iOS is a registered trademark of Cisco in the US and is used by Apple under license



Instrument

Tech Specs

| | |
|-----------------------------------|--|
| 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 ² |
| Max. depth penetration | 10 m 33 ft ³ |
| Scan rate | 500 Hz |
| Spatial interval | Up to 100 scans/m |
| Acquisition speed | Up to 80 Km/h 50 mph ⁴ |
| GNSS receiver | Multiband GPS + Glonass + Galileo + Beidou SSR augmentation / NRTK-compatible ⁵ 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 ⁶ |
| GNSS initialization time | Typ. 5 - 30 s |
| Wheel encoders | 2 |
| Configurations | Proceq GS8000 Lite Proceq GS8000 Pro ⁷ |
| Weight | 24 Kg ⁸ |
| Dimensions | 61 x 57 x 38 cm ⁹ |
| Antenna positions | Ground-coupled with dual-axis floating Air-coupled with 25 mm clearance ¹⁰ |
| Ingress protection (IP) / sealing | IP65 |
| Power supply | Removable flight-safe battery pack ¹¹ Off-the-shelf power bank ¹² |
| Autonomy | 3.5 hours Full working day ¹³ |
| 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 ¹⁴ |

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

2. Metallic object buried at 0.3 m / 1 ft, in average soil conditions

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

4. At 50 mm scan interval

5. Needs an active Internet connection on the iPad; SSR service available in Europe, USA, southern Canada, southeastern Australia and South Korea / NRTK corrections via NTRIP in RTCM3 format

6. Via NTRIP RTK or SSR corrections; the achieved accuracy is subject to atmospheric conditions, satellite geometry, observation time, etc.

7. GS8000 Pro includes additionally: off-road wheels and underbody, GNSS pole fixation kit, tablet cover for sun and rain, hard transportation case

8. For GS8000 Pro configuration: 27 Kg

9. For GS8000 Pro configuration: 68 x 60 x 42 cm

10. For GS8000 Pro configuration: 40 mm











11. Contains 8x rechargeable C-Type NiMH batteries

12. USB-C PD power bank with max. dimensions: W 85mm x H 28mm (recommended power: 12V/>=1.25A or 15V/>=1A)

13. Recommended battery capacity: >4500 mAh | Recommended power bank capacity: >20000 mAh

14. For terrestrial positioning systems, an intermediate serial adapter to DB9 might be needed to output Pseudo NMEA GGA positions

Our Accessories

| Image | PartNumber | Description |
|---|------------|---|
|  | 39350510 | Accommodates 8x NIMH rechargeable C-batteries. One unit included in all hardware variants. |
|  | 39350520 | Accommodates any compatible PD power bank unit. One unit included in all hardware variants. |
|  | 39350803 | For better back & forth rolling on uneven terrains. Included in GS8000 Pro hardware variant. |
|  | 39350660 | Stabilizes your GNSS pole in uneven terrains. Included in GS8000 Pro hardware variant. |
|  | 39350225 | Shifts the position of your wheels 20mm in any direction. Included in GS8000 Pro hardware variant. |
|  | 39350710 | Included in GS8000 Pro hardware variant. |
|  | 39350404 | Accommodates any iPad Pro and sun & rain cover. Included in all hardware variants. |
|  | 39350480 | Protects the iPad from sun & rain. Included in GS8000 Pro hardware variant. |
|  | 39350060 | Accommodates an umbrella to protect the user from sun & rain. |
|  | 39350486 | Makes the tablet holder compatible with diverse accessories and cases. Included in all hardware variants. |

| Standards & Guidelines | Description |
|-----------------------------|-------------|
| AS 5488-2013 (Australia) | |
| NF_S70-003 (France) | |
| UNI/PdR 26.01:2017 (Italy) | |
| ASCE 38-02 (United States) | |
| CSA S250 (Canada) | |
| HSG47 (United Kingdom) | |
| PAS128 (United Kingdom) | |
| ASTM D6432-11 | |
| NCHRP Synesis 255 | |
| SHRP H-672 | |
| SHRP S-300 | |
| SHRP S-325 | |

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