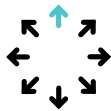




Subsurface Mapping GPR

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



Instrument

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



| | |
|--|--|
| 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. time window | 200 ns |
| Scan rate | 500 Hz |
| Spatial interval | Up to 100 scans/m |
| Acquisition speed | Up to 80 Km/h 50 mph ³ |
| GNSS receiver | Multiband GPS + Glonass + Galileo + Beidou SSR augmentation / NRTK-compatible ⁴ 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 ⁵ |
| GNSS initialization time | Typ. 5 - 30 s |
| Wheel encoders | 2 |
| Configurations | Proceq GS8000 Lite Proceq GS8000 Pro ⁶ |
| Weight | 24 Kg ⁷ |
| Dimensions | 61 x 57 x 38 cm ⁸ |
| Antenna positions | Ground-coupled with dual-axis floating Air-coupled with 25 mm clearance ⁹ |
| 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 ¹³ |

- Running an up-to-date iOS version; recommended models: iPad Pro® WiFi + Cellular 11" or 12.9"
- Metallic object buried at 0.3 m / 1 ft, in average soil conditions
- At 50 mm scan interval
- 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
- Via NTRIP RTK or SSR corrections; the achieved accuracy is subject to atmospheric conditions, satellite geometry, observation time, etc.
- GS8000 Pro includes additionally: off-road wheels and underbody, GNSS pole fixation kit, tablet cover for sun and rain, hard transportation case
- For GS8000 Pro configuration: 27 Kg
- For GS8000 Pro configuration: 68 x 60 x 42 cm
- For GS8000 Pro configuration: 40 mm
- Contains 8x rechargeable C-Type NiMH batteries
- USB-C PD power bank with max. dimensions: W 85mm x H 28mm (recommended power: 12V/≥1.25A or 15V/≥1A)
- Recommended battery capacity: >4500 mAh | Recommended power bank capacity: >20000 mAh
- 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 6x 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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