



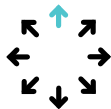
## Subsurface Mapping GPR

# Proceq GS8000 Pro

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

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### 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                                     |
| Display settings    | Linework                                    |
|                     |   |
|                     | Slice depth and thickness                   |
|                     | Auto / linear / time gain                   |
|                     | Background removal                          |
|                     | Multi-layer dielectric constant             |
|                     | Time window                                 |
|                     | Noise cancellation filter                   |
|                     | Frequency filter                            |
|                     | Low pass filter                             |
| Reporting           | Color palette                               |
|                     | Object layers                               |
|                     |   |
|                     | Workspace integration                       |
|                     | Automatic logbook                           |
| Export format       | Instant map / drawing generation            |
|                     | Instant report generation                   |
|                     | Share via url                               |
|                     |   |
|                     |   |
| Coordinate System   | SEG-Y                                       |
|                     | DXF   |
|                     | SHP   |
|                     | KML   |
|                     | HTML  |
| Languages           | EPSG global database                        |
|                     | Local grid models                           |
|                     | Geoid models                                |
|                     |   |
|                     |   |
| Display unit        | English                                     |
|                     | Spanish                                     |
|                     | French                                      |
|                     | German                                      |
|                     | Italian                                     |
|                     | Chinese                                     |
|                     |   |
|                     |   |
|                     |   |
|                     |   |
|                     | Any iPad® or iPad Pro® <sup>1</sup>         |
|                     | 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 <sup>2</sup>   |
| 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 <sup>3</sup>  |
| GNSS receiver                     | Multiband GPS + Glonass + Galileo + Beidou<br>SSR augmentation / NRTK-compatible <sup>4</sup><br>Dimensions: 145 x 145 x 70 mm<br>Weight: 0.7 Kg, 4x AA-batteries included |
| GNSS real-time 3D accuracy        | Typ. 1 - 5 cm   0.5 - 2 in <sup>5</sup>  |
| GNSS initialization time          | Typ. 5 - 30 s  |
| Wheel encoders                    | 2  |
| Configurations                    | Proceq GS8000 Lite<br>Proceq GS8000 Pro <sup>6</sup>   |
| Weight                            | 24 Kg <sup>7</sup>   |
| Dimensions                        | 61 x 57 x 38 cm <sup>8</sup>   |
| Antenna positions                 | Ground-coupled with dual-axis floating<br>Air-coupled with 25 mm clearance <sup>9</sup>  |
| Ingress protection (IP) / sealing | IP65   |
| Power supply                      | Removable flight-safe battery pack <sup>10</sup><br>  Off-the-shelf power bank <sup>11</sup>   |
| Autonomy                          | 3.5 hours   Full working day <sup>12</sup>   |
| 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 <sup>13</sup>  |

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. At 50 mm scan interval
4. 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
5. Via NTRIP RTK or SSR corrections; the achieved accuracy is subject to atmospheric conditions, satellite geometry, observation time, etc.
6. GS8000 Pro includes additionally: off-road wheels and underbody, GNSS pole fixation kit, tablet cover for sun and rain, hard transportation case
7. For GS8000 Pro configuration: 27 Kg
8. For GS8000 Pro configuration: 68 x 60 x 42 cm
9. For GS8000 Pro configuration: 40 mm
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
13. 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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