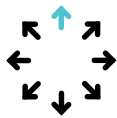




## Subsurface Mapping GPR GS8000

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.



|                            |   |
|----------------------------|---|
| <b>Measurements modes</b>  | Line Scan                                   |
|                            | Grid Scan                                   |
|                            | Free Path                                   |
| <b>Visualization modes</b> | A-scan                                      |
|                            | Line Scan                                   |
|                            | Line Scan migrated                          |
|                            | Time Slice View                             |
|                            | Map View                                    |
| <b>On-site annotations</b> | Augmented Reality                           |
|                            | Tags  |
|                            | Markers                                     |
|                            | Photos                                      |
|                            | Points of interest                          |
|                            | Voice notes                                 |
|                            | Markups                                     |
| Linework                   |   |
| <b>Display settings</b>    | 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                               |
| <b>Reporting</b>           | Workspace integration                       |
|                            | Automatic logbook                           |
|                            | Instant map / drawing generation            |
|                            | Instant report generation                   |
|                            | Share via url                               |
| <b>Export format</b>       | SEG-Y                                       |
|                            | DXF   |
|                            | SHP   |
|                            | KML   |
|                            | HTML  |
| <b>Coordinate System</b>   | EPSG global database                        |
|                            | Local grid models                           |
|                            | Geoid models                                |
| <b>Languages</b>           | English                                     |
|                            | Spanish                                     |
|                            | French                                      |
|                            | German                                      |
|                            | Italian                                     |
|                            | Chinese                                     |
| <b>Display unit</b>        | 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

|  |   |
|--|---|
| <b>Radar technology</b>                  | Stepped-frequency Continuous-Wave GPR   |
| <b>Modulated frequency range</b>         | 40 – 3440 MHz <sup>2</sup>  |
| <b>Effective bandwidth</b>               | 3200 MHz <sup>3</sup>   |
| <b>Min. detectable target size</b>       | 1 cm   0.4 in <sup>4</sup>  |
| <b>Max. depth penetration</b>            | 10 m   33 ft <sup>5</sup>   |
| <b>Scan rate</b>                         | 500 Hz  |
| <b>Spatial interval</b>                  | Up to 100 scans/m   |
| <b>Acquisition speed</b>                 | Up to 80 Km/h   50 mph <sup>6</sup>   |
| <b>GNSS receiver</b>                     | Multiband GPS + Glonass + Galileo + Beidou<br>SSR augmentation <sup>7</sup> / RTK-compatible<br>Dimensions: 145 x 145 x 70 mm<br>Weight: 0.7 Kg, 4x AA-batteries included |
| <b>GNSS real-time 3D accuracy</b>        | Typ. 1 - 5 cm   0.5 - 2 in <sup>8</sup>   |
| <b>GNSS initialization time</b>          | Typ. 5 - 30 s   |
| <b>Wheel encoders</b>                    | 2   |
| <b>Configurations</b>                    | Proceq GS8000<br>Proceq GS8000 Pro <sup>9</sup>   |
| <b>Weight</b>                            | 24 Kg <sup>10</sup>   |
| <b>Dimensions</b>                        | 61 x 57 x 38 cm <sup>11</sup>   |
| <b>Antenna positions</b>                 | Ground-coupled with dual-axis floating<br>Air-coupled with 25 mm clearance <sup>12</sup>  |
| <b>Ingress protection (IP) / sealing</b> | IP65  |
| <b>Power supply</b>                      | Removable flight-safe battery pack <sup>13</sup><br>  Off-the-shelf power bank <sup>14</sup>  |
| <b>Autonomy</b>                          | 3.5 hours   Full working day <sup>15</sup>  |
| <b>Operating temperature</b>             | -10° to 50°C   14° to 122° F  |
| <b>Operating humidity</b>                | <95% RH, non-condensing   |
| <b>Connectivity</b>                      | WiFi, Ethernet, USB-A, USB-B, USB-C, Lemo <sup>16</sup>   |

- Running an up-to-date iOS version; recommended models: iPad Pro® WiFi + Cellular 11" or 12.9"
- For USA & Canada: 200 - 3440 MHz
- For USA & Canada: 3000 MHz
- Metallic object buried at 0.3 m / 1 ft, in average soil conditions
- Depending on soil conditions, typ. 6 m / 20 ft in average soil conditions. For USA & Canada: 12 ft in average soil conditions
- At 50 mm scan interval. For USA & Canada: Up to 35 km/h / 22 mph
- Needs an active Internet connection on the iPad; SSR service available in Europe & USA / RTK 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



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