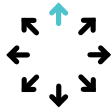




## Subsurface Mapping GPR GS9000

The most efficient multichannel GPR system with real-time 3D visualization



### Versatility

Two interchangeable array modules, one vast array of applications. Enjoy the interoperability of the most versatile multichannel GPR subsurface mapper.



### Accuracy

Best-in-class GPR & geospatial technology for the highest density of information across all three dimensions, accurately mapped in your local coordinates.



### Efficiency

Easy to set up and operate. On-the-fly data visualization to avoid any interpretation errors in the field. Instantly ready for advanced analysis, even remotely.



# Proceq GPR Subsurface App

## Tech Specs



# Instrument

## Tech Specs

|                              |  |
|------------------------------|--|
| <b>Field Methodology</b>     | Free Path<br>Superline   |
| <b>Live Image Processing</b> | Time Slice View (georeferenced)<br>Hilbert migration<br>Depth range adjustment<br>Dynamic Gain / Manual Gain<br>Sensitivity filter<br>Background removal filter<br>Noise cancellation filter<br>Frequency filter |
| <b>Live Display Options</b>  | Satellite imagery<br>GNSS trajectory<br>CAD object layers<br>Spectral / seismic color palettes   |
| <b>On-site Annotations</b>   | Tags<br>Points of interest<br>Photos<br>Voice markers<br>Markups<br>Linework   |
| <b>Field Calibration</b>     | Odometer calibration<br>Velocity by hyperbola fitting<br>Velocity for multiple layers  |
| <b>Cloud Services</b>        | Live data synchronization to Workspace <sup>9</sup><br>Permanent data storage<br>Raw data export to SEG-Y<br>Instant CAD / SHP / KML generation<br>Instant report generation<br>Share via url                    |
| <b>Coordinate System</b>     | EPSG global database<br>Local grid models<br>Geoid models  |
| <b>Languages</b>             | English<br>Spanish<br>French<br>German<br>Italian<br>Chinese<br>Japanese<br>Korean   |
| <b>Display unit</b>          | Any iPad® or iPad Pro® <sup>1</sup><br>Recommended: iPad Pro WiFi + Cellular<br>Screen resolution: up to 2732 x 2048 pixels<br>Storage capacity: up to 2 TB  |











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|  |   |
|--|---|
| <b>Radar technology</b>                  | Stepped-frequency GPR                                       |
| <b>Modulated frequency range</b>         | 500 – 3000 MHz <sup>2</sup>   30 – 750 MHz <sup>3</sup>     |
| <b>Number of channels</b>                | 35 (VV) + 15 (HH) <sup>2</sup>   11 (VV) <sup>3</sup>       |
| <b>Channel spacing</b>                   | 2.5 cm (VV), 5.5 cm (HH) <sup>2</sup>   7.5 cm <sup>3</sup> |
| <b>Scan width</b>                        | 0.85 m <sup>2</sup>   0.82 m <sup>3</sup>                   |
| <b>Scan rate</b>                         | 27500 scans/s <sup>2</sup>   22000 scans/s <sup>3</sup>     |
| <b>Time window</b>                       | 45 ns <sup>2</sup>   130 ns <sup>3</sup>                    |
| <b>Spatial interval</b>                  | Up to 100 scans/m   |
| <b>Dimensions</b>                        | 722 x 1178 x 443 mm   |
| <b>Weight</b>                            | 45 Kg <sup>2</sup>  |
| <b>Wheel encoders</b>                    | 2, on rear wheels   |
| <b>Ingress protection (IP) / sealing</b> | IP65  |
| <b>Power consumption</b>                 | Off-the-shelf power bank <sup>4</sup>                       |
| <b>Autonomy</b>                          | 6 hours   Hot-swappable <sup>5</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, USB-A, USB-C, Lemo <sup>6</sup>                       |
| <b>GNSS satellites</b>                   | Multiband GPS + Glonass + Galileo + Beidou                  |
| <b>GNSS real-time corrections</b>        | SSR augmentation / NRTK-compatible <sup>7</sup>             |
| <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   |

1. Running an up-to-date iOS version; recommended models: iPad Pro® WiFi + Cellular (2022 model or superior)
2. In combination with GX1 array module
3. In combination with GX2 array module
4. USB-C power bank with Power Delivery. Max. dimensions: W 85mm x H 28mm (recommended power: 12/15/20V - >45 W)
5. Using 2x 26,800 mAh power banks
6. For terrestrial positioning systems, an intermediate serial adapter to DB9 might be needed to output Pseudo NMEA GGA positions
7. 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
8. Via NTRIP RTK or SSR corrections; the achieved accuracy is subject to atmospheric conditions, satellite geometry, observation time, etc.
9. Up to 1 TB of personal space per user ID



## Our Accessories

| Image   | PartNumber | Description   |
|---|------------|---|
|  | 39367260   | GX1GPR array module (500-3000 MHz) for road & bridge mapping. Compatible with: GM8000, GS9000             |
|  | 39367250   | GX2 GPR array module (30-750 MHz) for utility & geophysical mapping. Compatible with: GM8000, GS9000      |
|  | 39360277   | Skid plate for GX1 array module   |
|  | 39360281   | Skid plate for GX2 array module   |
|  | 39350660   | Stabilizes your GNSS pole in uneven terrains. Included in GS9000 Pro hardware variant.                    |
|  | 39350710   | Included in GS9000 Pro hardware variant.  |
|  | 39350404   | Accommodates any iPad Pro and sun & rain cover. Included in all hardware variants.                        |
|  | 39350060   | Accommodates an umbrella to protect the user from sun & rain.   |
|  | 39350480   | Protects the iPad from sun & rain. Included in GS9000 Pro hardware variant.                               |
|  | 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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