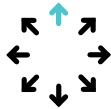




## Subsurface Mapping GPR GS9000

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 Superline
<b>Live Image Processing</b>	Time Slice View (georeferenced) Hilbert migration Depth range adjustment Dynamic Gain / Manual Gain Sensitivity filter Background removal filter Noise cancellation filter Frequency filter
<b>Live Display Options</b>	Satellite imagery GNSS trajectory CAD object layers Spectral / seismic color palettes
<b>On-site Annotations</b>	Tags Points of interest Photos Voice markers Markups Linework
<b>Field Calibration</b>	Odometer calibration Velocity by hyperbola fitting Velocity for multiple layers
<b>Cloud Services</b>	Live data synchronization to Workspace <sup>9</sup> Permanent data storage Raw data export to SEG-Y Instant CAD / SHP / KML generation Instant report generation Share via url
<b>Coordinate System</b>	EPSG global database Local grid models Geoid models
<b>Languages</b>	English Spanish French German Italian Chinese Japanese Korean
<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 2 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 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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