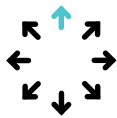




## Subsurface Mapping GPR GS8000

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 SSR augmentation <sup>7</sup> / RTK-compatible Dimensions: 145 x 145 x 70 mm 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 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 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>   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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