

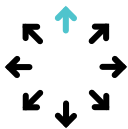


## Proceq GPR Subsurface **GS8000**

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The all-in-one solution for detecting objects and mapping the underground world using SFCW ground penetrating radar technology.

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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.



## Software / Workspace App

<b>Acquisition modes</b>	Line Scan, Area Scan, Free Path
<b>View modes</b>	A-scan, Line Scan non-migrated, Line Scan migrated, Time Slice View, Map View, 3D, Augmented Reality
<b>On-site annotations</b>	Tags, markers, points of interest, lines, photos, notes, voice notes, markups
<b>Adjustable display settings</b>	Color palette, linear gain, time gain compensation, background removal, multi-layer dielectric constant, time window, noise cancellation filter, frequency filter, low pass filter, slice depth, slice thickness
<b>Data options</b>	Cloud storage, SEG-Y export, HTML export, KML export, DXF export, SHP export
<b>Display unit</b>	Any iPad® or iPad Pro® <sup>1</sup> Recommended: iPad Pro WiFi+Cellular (M1) Screen resolution: up to 2732 x 2048 pixels Storage capacity: up to 1 TB
<b>Max. scan length</b>	Up to 15 Km   9.3 mi
<b>Max. scan grid size</b>	Up to 80 x 80 m   260 x 260 ft

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## Processing Unit / Sensor

<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>Configuration</b>	Wireless integrated push & pull cart
<b>Weight</b>	24 Kg <sup>9</sup>
<b>Dimensions</b>	61 x 57 x 38 cm
<b>Antenna positions</b>	Ground-coupled with dual-axis floating Air-coupled with 25 mm clearance
<b>Ingress protection (IP) / sealing</b>	IP65
<b>Power supply</b>	Removable flight-safe battery pack <sup>10</sup>   Off-the-shelf power bank <sup>11</sup>
<b>Autonomy</b>	3.5 hours   Full working day <sup>12</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>1</sup> Running an up-to-date iOS version; recommended models: iPad Pro® WiFi + Cellular 11" or 12.9"

<sup>2</sup> For USA & Canada: 200 - 3440 MHz

<sup>3</sup> For USA & Canada: 3000 MHz

<sup>4</sup> Metallic object buried at 0.3 m / 1 ft, in average soil conditions

<sup>5</sup> Depending on soil conditions, typ. 6 m / 20 ft in average soil conditions. For USA & Canada: 12 ft in average soil conditions

<sup>6</sup> At 50 mm scan interval. For USA & Canada: Up to 35 km/h / 22 mph

<sup>7</sup> Service available in Europe & USA; needs an active Internet connection on the iPad

<sup>8</sup> Via NTRIP RTK or SSR corrections; the achieved accuracy is subject to atmospheric conditions, satellite geometry, observation time, etc.

<sup>9</sup> Batteries and tablet not included

<sup>10</sup> Contains 8x rechargeable C-Type NiMH batteries

<sup>11</sup> USB-C PD power bank with max. dimensions: W 85mm x H 28mm"; recommended power: 12V/≥1.25A or 15V/≥1A

<sup>12</sup> Recommended battery capacity: >4500 mAh | Recommended power bank capacity: >20000 mAh

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