



# HOSKIN

SCIENTIFIC

## PROCEQ GROUND PENETRATING RADARS

CONCRETE INSPECTION AND  
STRUCTURAL IMAGING



[hoskin.ca](http://hoskin.ca)

Supplying Testing & Monitoring Instruments Since 1946



## ABOUT HOSKIN

---

For over seventy years, Hoskin Scientific has been a supplier of testing and monitoring instrumentation to the Canadian market. With offices in Vancouver, Edmonton, Oakville and Montréal our customers are able to receive local sales and technical support in our three major departments.

Our Environmental Department provides solutions for monitoring and sampling biological and chemical parameters in the environment. Our team of environmental sales representatives and diverse product range guarantee that you will find the right products for your application. Specific areas include: water quality, water quantity, soil moisture, plant science, weather stations, indoor air quality, aquatic sampling, and oceanography.

Our Materials Testing Department offers testing equipment for soil, asphalt, petroleum, concrete and cement. Our qualified sales associates focus on providing a sophisticated range of testing equipment complying with the various test methods, ensuring that accurate and consistent test results are always obtained.

Our Instrumentation Department focuses on a wide range of products including optical camera systems, transducers and transmitters, data acquisitions and loggers, signal conditioners and indicators, automation sensors and measurement systems. We have technical sales associates that are trained in various areas and willing to help you with your instrumentation requirements.

## RENTALS

---

We offer high quality, proven equipment that will provide the user with valuable data as well as numerous ways of retrieving, filtering and viewing that data. We carry a wide range of instrumentation, including: water quality, portable gas monitors, soil sampling instruments and more.

Rental Equipment:

- Single and multi-parameter instruments that can be setup for spot checks or extended deployment/data logging
- Water sampling instruments
- Water velocity and stream profiling instruments
- Soil sampling instruments
- Soil vapour sampling instruments
- Portable gas monitoring instruments

Customer satisfaction is our goal and we make an effort to ensure that all our customers are satisfied with their rental. All rental instruments are cleaned and calibrated before being sent to the user (please note that we also require equipment to be returned clean). If a rental instrument requires recalibration, please return the instrument to us and we will recalibrate at no charge. Any instrument not functioning properly can be exchanged at no cost.

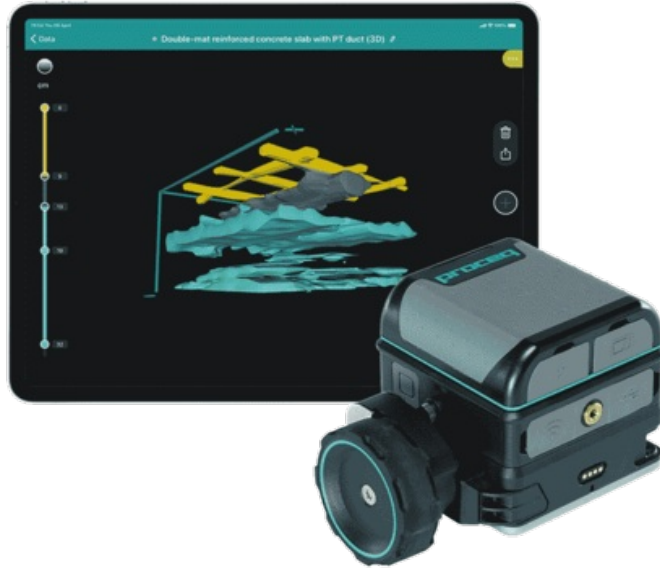
Hoskin Scientific offers technical support over the phone and can also provide hands on demonstrations.

We are constantly expanding and looking for new equipment to add to the rental inventory and welcome all suggestions.

Check our website [www.hoskin.ca](http://www.hoskin.ca) for current offerings.

Daily, weekly and monthly rental rates available – please call for a quote.

GP8800.....4  
GP8000.....6  
GP8100.....8  
GS8000.....10



## Proceq Ground Penetrating Radars **GP8800**

---

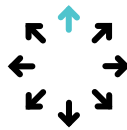
Concrete inspections and structural imaging with SFCW ground penetrating radar technology now fits at the palm of your hand

---



### **Performance**

Superior depth and clarity of data thanks to the unique Swiss Made radar technology with all the frequencies you'll ever need. Immediate insights with 3D and Augmented Reality.



### **Versatility**

Inspect with ease of use, from the tightest spots to the tallest walls to the longest streets. Superior ergonomics to tackle any challenge with comfort, without cables.



### **Productivity**

A mobile app that lets you annotate measurements with voice, photos and comments. Generate reports and share them instantly. Access your data from anywhere, anytime.



## Software / Workspace App

<b>Measurement modes</b>	Superline Scan (1000m / 3281 ft) Area Scan (with Flexible Grid up to 100m2 / 1076 ft2)
<b>Review modes</b>	Superline scan <sup>1</sup> A-scan (incl. envelope) Migrated view Non-migrated view Split view <sup>1</sup> Time-Slice view <sup>2</sup> Basic 3D view AR
<b>Advanced visualization</b>	Time-Slice view Pro 3D view Augmented Reality (AR)
<b>Reporting</b>	Workspace integration Automatic Logbook SEG-Y export Instant report generation Share via URL
<b>Export formats</b>	JPG PNG CSV SEGY HTML
<b>Display Unit Specs*:</b>	Latest Apple® iPad recommended (iPad with iOS 11.0 and higher) Screen size: From 7.9" to 12.9" Resolution: Up to 2732-by-2048 Memory: Up to 2TB Weight: Down to 301 g / 10.6 oz Camera: Up to 12MP Wide and 10MP Ultra Wide Optional: USB-C, 5G, Face ID
<b>Display Unit Sensors*:</b>	LiDAR Scanner (optional) Three-axis gyro Accelerometer Ambient light sensor Barometer Built-in GPS/GNSS

1. GP8100 only; 2. GP8000 & GP8100 only

\* Depending on iPad model



## Processing Unit / Sensor

<b>Radar technology</b>	Stepped-frequency continuous-wave (SFCW) GPR
<b>Modulated frequency range</b>	400 – 6000 MHz
<b>Penetration depth</b>	65 cm / 25.6 in
<b>Battery</b>	Flight-safe, removable pack, 4x AA (NiMH)
<b>Dimensions</b>	8.9 x 8.9 x 7.6 cm 3.5 x 3.5 x 3 in
<b>Weight</b>	487 g / 17.2 oz (excl. battery pack)
<b>Ground clearance</b>	0 cm
<b>Antennas</b>	1
<b>Antenna distance to edge</b>	4.5 cm / 1.77 in
<b>Special features</b>	Wireless wheel, reconfigurable at any time without tools. Cross-polarization (trailing and side-car configurations) USB-C tethering to battery pack/power bank
<b>Connections</b>	WiFi (802.11n) and USBC to display unit
<b>Autonomy</b>	2.5 h (up to 8 hours with off-the-shelf 10'000 mAh power bank, not included)



SWISS  MADE



## Proceq Ground Penetrating Radars **GP8000**

---

Faster, easier concrete inspections and structural imaging with SFCW ground penetrating radar technology

---



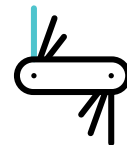
### **Resolution & depth**

Superior depth and clarity of data thanks to the unique Swiss Made radar technology with all the frequencies you'll ever need. Immediate insights with 3D and Augmented Reality.



### **Powerful UI**

Inspect with ease of use, from the tightest spots to the tallest walls to the longest streets. Superior ergonomics to tackle any challenge with comfort, without cables.



### **Great handling**

Mobile app that lets you annotate measurements with voice, photos and comments. Generate reports and share them instantly. Access your data from anywhere, anytime.



## Software / Workspace App

<b>Measurement modes</b>	Superline Scan (1000m / 3281 ft) Area Scan (with Flexible Grid up to 100m2 / 1076 ft2)
<b>Review modes</b>	Superline scan <sup>1</sup> A-scan (incl. envelope) Migrated view Non-migrated view Split view <sup>1</sup> Time-Slice view <sup>2</sup> Basic 3D view AR
<b>Advanced visualization</b>	Time-Slice view Pro 3D view Augmented Reality (AR)
<b>Reporting</b>	Workspace integration Automatic Logbook SEG-Y export Instant report generation Share via URL
<b>Export formats</b>	JPG PNG CSV SEGY HTML
<b>Display Unit Specs*:</b>	Latest Apple® iPad recommended (iPad with iOS 11.0 and higher) Screen size: From 7.9" to 12.9" Resolution: Up to 2732-by-2048 Memory: Up to 2TB Weight: Down to 301 g / 10.6 oz Camera: Up to 12MP Wide and 10MP Ultra Wide Optional: USB-C, 5G, Face ID
<b>Display Unit Sensors*:</b>	LiDAR Scanner (optional) Three-axis gyro Accelerometer Ambient light sensor Barometer Built-in GPS/GNSS

1. GP8100 only; 2. GP8000 & GP8100 only

\* Depending on iPad model



## Processing Unit / Sensor

<b>Radar technology</b>	Stepped-frequency continuous-wave (SFCW) GPR
<b>Modulated frequency range</b>	200 – 4000 MHz
<b>Penetration depth</b>	80 cm / 31.5 in
<b>Battery</b>	Flight-safe, removable pack, 8x AA (NiMH)
<b>Dimensions</b>	22.1 x 18 x 14 cm 8.7 x 7.1 x 5.5 in
<b>Weight</b>	1.5 kg / 3.3 lbs (excl. battery pack)
<b>Ground clearance</b>	0.8 cm / 0.32 in
<b>Antennas</b>	1
<b>Antenna distance to edge</b>	8.3 cm / 3.27 in
<b>Special features</b>	All-wheel drive with high-traction wheels Laser light guidance
<b>Connections</b>	Wi-Fi (802.11n) to display unit
<b>Autonomy</b>	3 h



SWISS  MADE



---

## Proceq Ground Penetrating Radars **GP8100**

---

Highly productive portable concrete GPR array, enabling quick object detection and superior data collection

---



### **Productivity**

Boost scanning efficiency with 25cm effective scan width and 80cm penetration depth, one scan is equivalent to 6 classical line scans



### **Visualization**

Detecting objects of all sizes and marking on concrete surfaces has never been so easy and fast with the superline scan view



### **Density**

The high scan rate of 1'200 scans/s enables a very dense GPR data collection in only one superline scan, which can be visualized in 6 classical line scans





## Software / Workspace App

<b>Measurement modes</b>	Superline Scan (1000m / 3281 ft) Area Scan (with Flexible Grid up to 100m2 / 1076 ft2)
<b>Review modes</b>	Superline scan <sup>1</sup> A-scan (incl. envelope) Migrated view Non-migrated view Split view <sup>1</sup> Time-Slice view <sup>2</sup> Basic 3D view AR
<b>Advanced visualization</b>	Time-Slice view Pro 3D view Augmented Reality (AR)
<b>Reporting</b>	Workspace integration Automatic Logbook SEG-Y export Instant report generation Share via URL
<b>Export formats</b>	JPG PNG CSV SEGY HTML
<b>Display Unit Specs*:</b>	Latest Apple® iPad recommended (iPad with iOS 11.0 and higher) Screen size: From 7.9" to 12.9" Resolution: Up to 2732-by-2048 Memory: Up to 2TB Weight: Down to 301 g / 10.6 oz Camera: Up to 12MP Wide and 10MP Ultra Wide Optional: USB-C, 5G, Face ID
<b>Display Unit Sensors*:</b>	LiDAR Scanner (optional) Three-axis gyro Accelerometer Ambient light sensor Barometer Built-in GPS/GNSS

1. GP8100 only; 2. GP8000 & GP8100 only

\* Depending on iPad model



## Processing Unit / Sensor

<b>Radar technology</b>	Stepped-frequency continuous-wave (SFCW) GPR
<b>Modulated frequency range</b>	400 – 4000 MHz
<b>Penetration depth</b>	80 cm / 31.5 in
<b>Battery</b>	Flight-safe, removable pack, 8x AA (NiMH)
<b>Dimensions</b>	41.5 x 22.5 x 13.2 cm 16.3 x 8.9 x 5.2 in
<b>Weight</b>	3.0 kg / 6.6 lbs (excl. battery pack)
<b>Ground clearance</b>	0.8 cm / 0.32 in
<b>Antennas</b>	6
<b>Antenna distance to edge</b>	8.3 cm / 3.27 in
<b>Special features</b>	All-wheel drive with high-traction wheels and laser light guidance USB-C tethering to power bank
<b>Connections</b>	Wi-Fi (802.11n) to display unit USB-C for Wi-Fi restricted areas
<b>Autonomy</b>	3h (Up to 8 hours with off-the-shelf 10'000 mAh power bank, not included)



SWISS  MADE

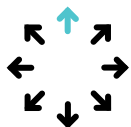


Proceq GPR Subsurface  
**GS8000**

---

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

---



**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

iPad is a trademark of Apple Inc.; iOS is a registered trademark of Cisco in the US used by Apple under license



## 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

1 Running an up-to-date iOS version; recommended models: iPad Pro® WiFi + Cellular 11" or 12.9"

2 For USA & Canada: 200 - 3440 MHz

3 For USA & Canada: 3000 MHz

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

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

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

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

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

9 Batteries and tablet not included

10 Contains 8x rechargeable C-Type NiMH batteries

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

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

SWISS  MADE

Hoskin Scientific Limited has been supplying testing and monitoring instruments since 1946. Although our range is broad, we focus on three major markets including:

Geotechnical & Materials Testing  
Environmental Monitoring  
Test & Measurement Instrumentation

Hoskin Scientific operates out of four offices within Canada:

**Western Canada**

3735 Myrtle Street  
Burnaby, BC V5C 4E7  
(604) 872-7894  
salesv@hoskin.ca

**Ontario & Atlantic Canada**

#5-3280 South Service Rd, W  
Oakville, ON L6L 0B1  
(905) 333-5510  
salesb@hoskin.ca

**Québec**

300 Rue Stinson  
Montréal, QC H4N 2E7  
(514) 735-5267  
salesm@hoskin.ca

**Edmonton**

11540 184 St NW  
Edmonton, AB T5S 2W7  
(780) 434-2645  
salesv@hoskin.ca



**HOSKIN**  
SCIENTIFIC

**hoskin.ca**

Supplying Testing & Monitoring Instruments Since 1946