SENSORS & SOFTWARE
from RADIODETECTION

GPR SG

MAP IT™
YOUR WAY

GNSS for GPR Systems

Use **high-accuracy GNSS** with your GPR
to **precisely locate & map** underground assets.

SPX TECHNOLOGIES

Accurate Positioning is Critical for GPR Surveys

Use your GPR to accurately position buried assets, determine the location of detected subsurface objects, identify areas to avoid digging and record the locations of all assets.

Sensors & Software's SG for GPR accessory bundles provide an out-of-the-box solution to integrate high-accuracy GNSS positioning into your GPR data. Every SG package includes a pre-configured Geode™ GNSS Receiver by Juniper Systems® with connectivity, setup, and battery management all taken care of at the system level, making it easy to incorporate precise positioning into your GPR workflow.

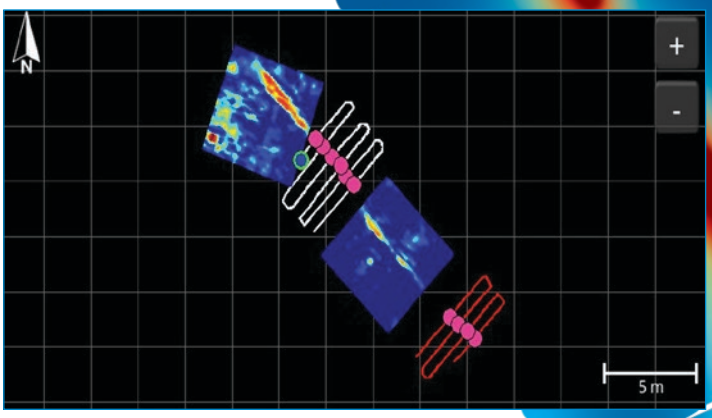
	SG Package includes	Optional RTK Upgrade adds
Features	• Single-frequency (L1) • Multi-constellation including GPS, GLONASS, BeiDou, GALILEO	• Multi-frequency (L1, L2, L5) • Galileo High Accuracy Service (GALHAS) support
Accuracy	30cm RMS[1]	1cm RMS[1] with RTK correction service[2] 20cm (with GALHAS)[1]
Correction services	Local SBAS correction (free) • WAAS in North America • EGNOS in Europe • GAGAN for South Asia • MSAS for East Asia	• Ground-based, NTRIP cellular correction services, available free of charge in some areas, or through paid subscriptions[2] • The satellite-based correction service, ATLAS®, provided by Juniper® Systems[2] • For a list of Geode-compatible RTK correction services available in your region, visit junipersys.com
Configuration	Pre-configured, ready to use out of the box	NTRIP or satellite correction must be configured in Geode App (instructions provided)
Custom cable	Noise-suppressing power cable: • Removes interference with GPR signals • Powers the GNSS directly from the GPR battery	
Data integration	GNSS positioning data is integrated directly into GPR data for powerful locating and mapping advantages in the field and post-processing.	
System Compatibility	LMX®, NOGGIN®, pulseEKKO®, SPIDAR®	

1. Additional specifications available at www.sensoft.ca/geode-gnss
2. Subscription to correction service is not included.

Benefits of High Accuracy GNSS

Enhanced in-field GPR visualization

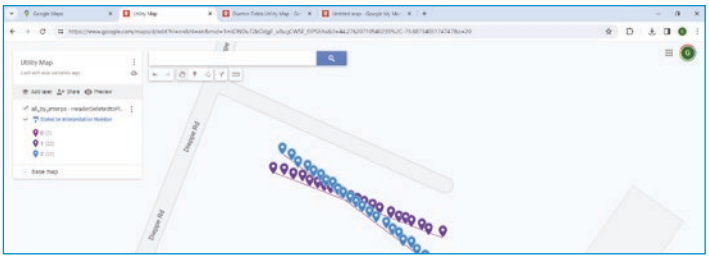
Easily track linear targets.



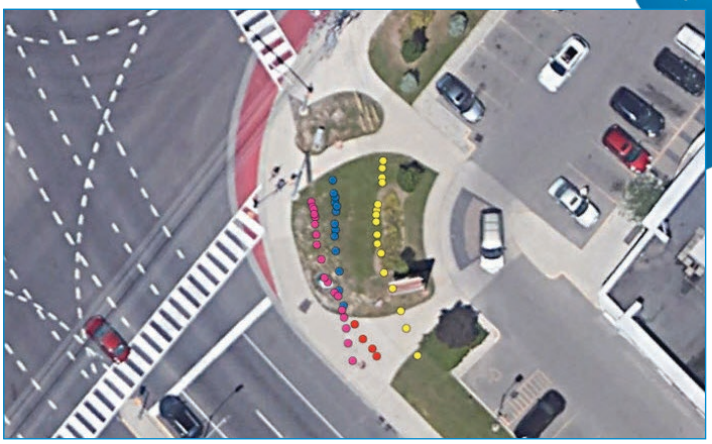
See MapView images with geo-referenced depth slices, survey path, field interpretations & flags.

Map your results with automatic GPR outputs

	A	B	C	D	E	F
1	Tool	Position (m)	Depth (m)	Latitude	Longitude	GPS-Elevation
2	Point	0.72	0.18	38.8345202	-9.1821844	16.63
3	Point	0.83	0.7	38.8345201	-9.1821826	16.6
4	Point	1.12	0.75	38.8345187	-9.1821798	16.59

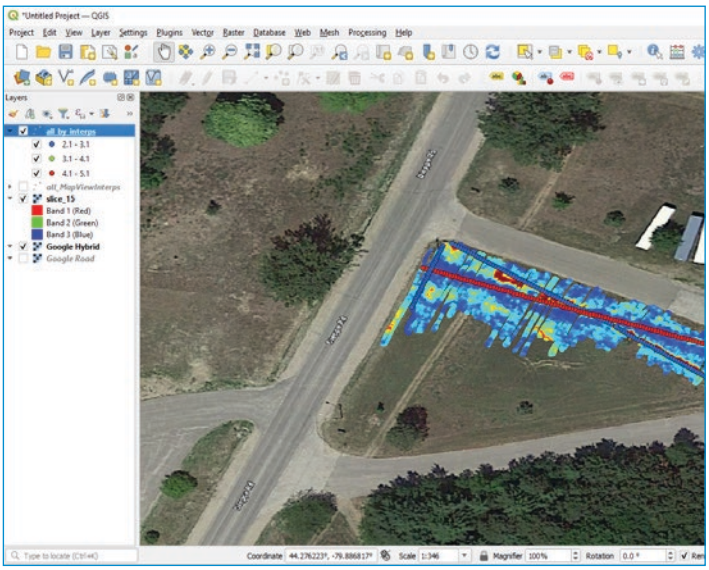


Import CSV file of field interpretations from utilities and other targets, into GIS, Google Maps & other mapping software.

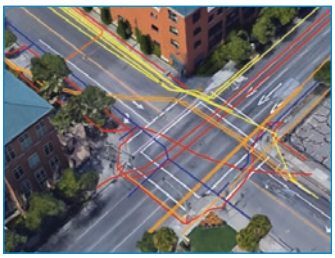


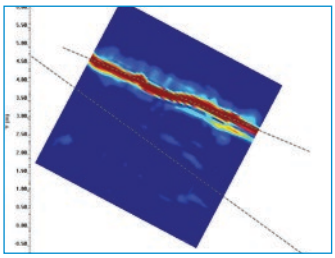
Plot KMZ files with GPR survey path, field interpretations & flags in 3rd-party software such as Google Earth™.

Use EKKO_Project™ GPR analysis software to export results in geo-referenced formats

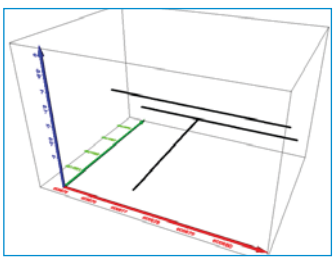


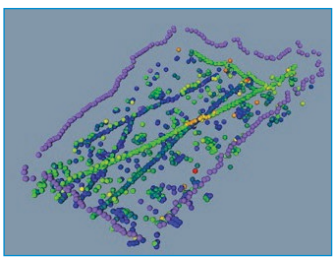
Generate depth slices to assist with data interpretation and export as GeoTIFF files into GIS software.





Add MapView interpretations and additional point interpretations to GPR data to augment CSV, KMZ, DXF files.





Create 3D plots of interpretations.

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SPX TECHNOLOGIES

Our Mission

Provide best in class equipment and solutions, to prevent damage to critical infrastructure, manage assets and protect lives.

Our Vision

To be the world's leader in the management of critical infrastructure and utilities.

Our Locations

USA

Raymond, ME
Kearneysville, WV

Canada

Mississauga, ON

Europe

United Kingdom **HQ**
France
Germany
The Netherlands

Asia Pacific

India
Hong Kong
Australia

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