LMX®
LOCATE & MARK™

GPR Locating Made Simple

LMX® System Overview

The simple, affordable way to Locate & Mark™ utilities in the field

LMX Ground Penetrating Radar (GPR) systems are designed & optimized for utility locating, making the LMX a natural addition to your locating workflow.

LMX® GPR systems complement traditional pipe and cable locators and allow you to Locate & Mark®:

- Metal utilities, including pipes and cables
- Non-metallic pipes, including PVC and asbestos cement
- Concrete storm and sewer systems
- Utilities where installed tracer wiring has failed
- Underground storage tanks and drainage tiles
- Septic system components
- Non-utility structures such as vaults, foundation walls and concrete pads

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High visibility touch screen display unit

- Free lifetime system software updates
- User selectable languages
- Metric and US Standard units

GPR Sensor

- Patented ultra-wideband (UWB) 250 MHz GPR antenna
- DynaT™ for Dynamic Target enhancement
- Offers perfect balance of depth penetration (up to 8m/26 ft) & high resolution

Lead Acid Gel Cell Battery

- Long lasting
- Swappable

On-site Reports

Produce instant on-site reports from your display unit

Integrated GPS

Integrated GPS receiver for geo-referencing data

Lightweight Fiberglass Cart Frame

- No metal parts that would interfere with GPR signals
- Rugged, all-terrain cart with integrated odometer, easily maneuverable over any surface

USB

USB for easy data transfer

Wi-Fi

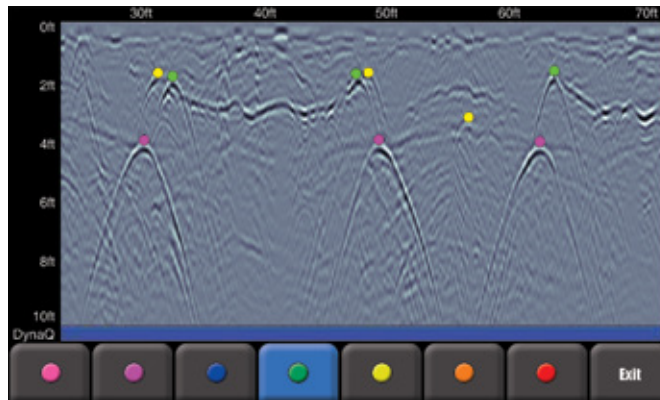Built-in Wi-Fi capability

LMX200™ Features

The premier GPR locating tool in the market today

LMX200 increases locate confidence by adding depth slice imaging and in-field interpretations

Color-coded field interpretations

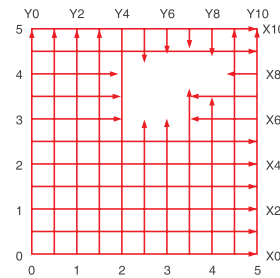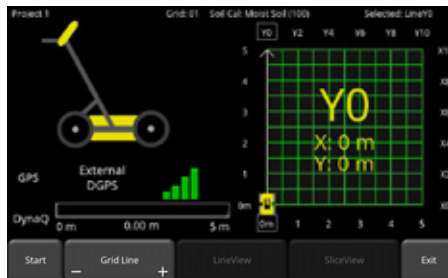Classify your targets in real-time by selecting a color option and touching the screen

Grids & Depth Slices
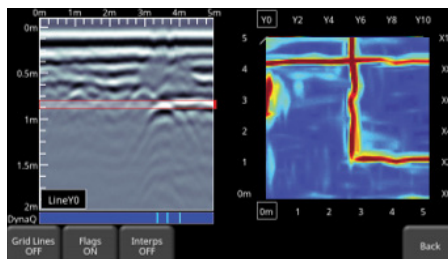
Complete coverage of complex areas

Flexible & guided grid collection

The LMX200™ guides you through setup with pre-selected grid sizes. Stop lines early, or skip lines.

In-field Depth slices

Process grid data into depth slices and move down through your data to visualize targets at different depths.
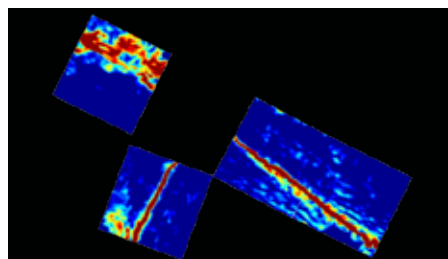

Obstacle avoidance

System guides data collection around an obstacle in your grid.

### Depth Slice through multiple grids on-site

In MapView, visualize all your grids at once for a complete picture.

SplitView - Real-time MapView during data collection

- Ensure full site coverage by visualizing your survey path
- See interpretations as you add them
- Review data for subtle targets that you may have missed
- Know your location, and go back to areas of interest
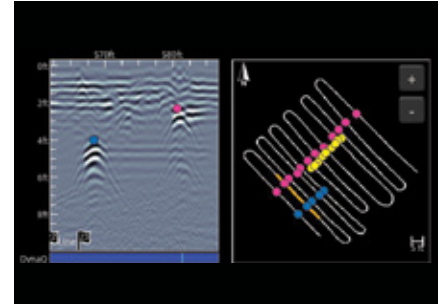

Visualize your entire survey in MapView

- See your survey path, depth slices, field interpretations, flags and lines
- Toggle layers on and off to focus on the elements of interest
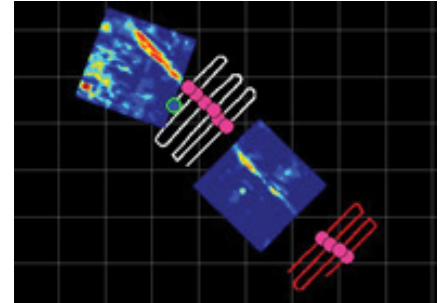
Export geo-referenced data

	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
5	Point	1.63	0.19	38.8345172	-9.1821759	16.56
6	Point	1.63	0.68	38.8345172	-9.1821759	16.56

Spreadsheet (.CSV) file with flags and interpretations
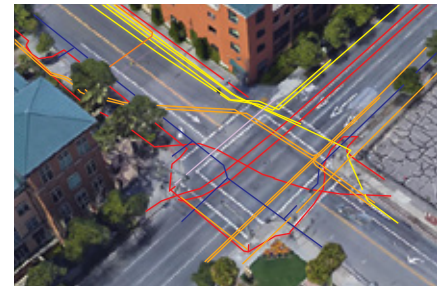
KMZ output of lines, grid locations, interpretations, and screenshots

LMX® Family

Hardware Specifications

| Weight & Dimensions		
Size: 100 x 70 x 115 cm (39.4 x 27.6 x 45.3 in)		
Weight: 22 kg (48 lbs)		
Display Unit size: 21 cm (8 in) diagonal		
Power		
12 Volt Sealed Lead Acid Gel Cell		
Battery Capacity: 9.0 Ah	**Weight:** 3.6 kg (7.9 lbs)	
Battery Life: 4 – 6 hours	**Charger:** 110 – 240V	
Environmental & Temperature		
Ruggedized, environmentally sealed unit and connections		
IP65	Operating temperature range: –104 to 122ºF (-40 to 50ºC)	
Regulatory Specifications		
Meets FCC 15.509, IC RSS-220 and ETSI EN-302066		

LMX100 and LMX200 Features

Rapidly locate metallic and non-metallic utilities
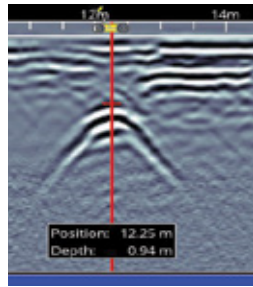
Enhance your productivity

No complex settings – Just press Start and push the cart

Easy Depth Calibration
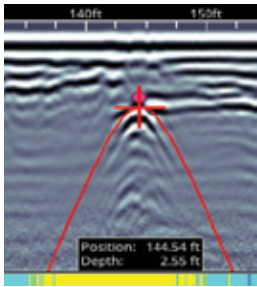
**Pinpoint Depth & Location**

Dynamic Stacking (DynaQ®)

☐ White = No Data (too fast!)
🟨 Yellow = Moderate quality
🟦 Light blue = Better quality
🟦 Dark Blue = Highest quality

Use hyperbola-fitting to ensure accurate depth measurements and backup over the target to display its location and depth

Better data quality with DynaQ - automatically adjusts stacking (averaging) based on your survey speed

Increase your target confidence in the field with image optimization

Preset Filters

Dynamic Target Enhancement (DynaT™)

Small

Medium

Large

All
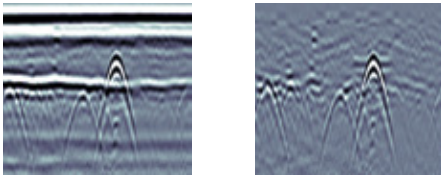
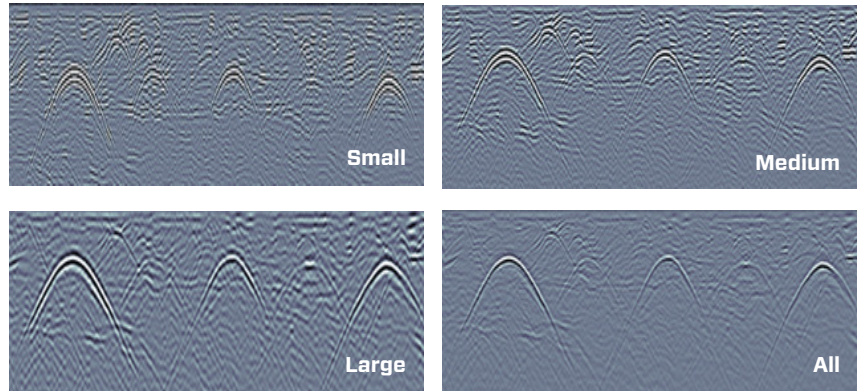**Adjustable Gain**
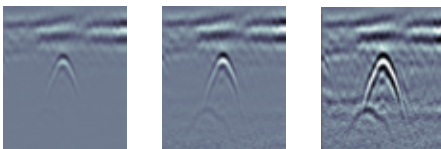
Optimize visibility of your targets with preset filters & gain

Enhance small, medium & large targets

Get faster deliverables

In-field Screenshot Gallery & Wi-Fi mini-reports

Geo-tagged information for reports & archiving
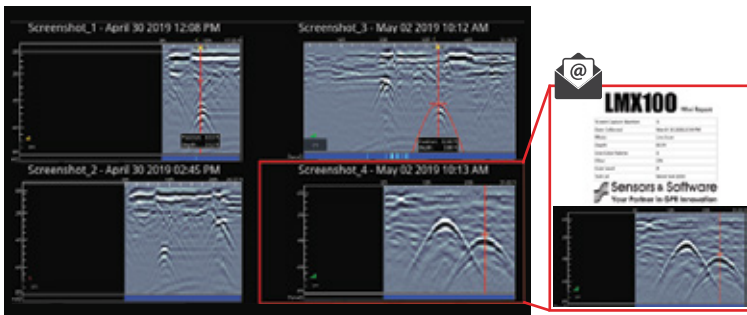
Manage & review your screenshots and email them in a Wi-Fi mini-report from the field to share key collection information and images

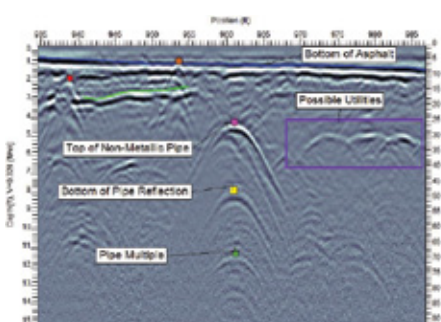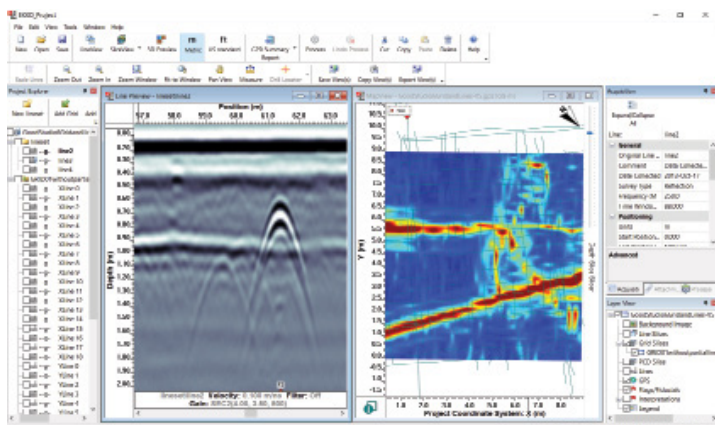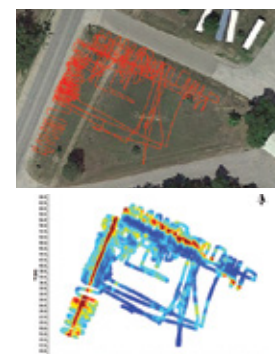All screenshots are geo-tagged and exported in a KMZ file that is easily displayed in Google Earth™

EKKO_Project™ Software

Visualize, Understand and Report your GPR results with optional EKKO_Project PC Software (for LMX200)
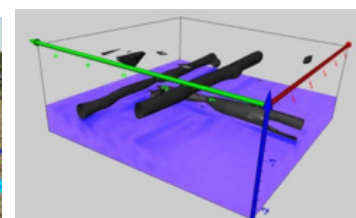

Add interpretations, photos, audio & video to GPR lines.

Create depth slices with or without a grid

Organize GPR data, photos and other files as a single project (.GPZ file)

Easily create PDF GPR summary reports of your findings.

Explore the many options for data visualizations and analysis with EKKO_Project software bundles.

Comparison Table

Feature	LMX100™	LMX200™
Real-time Locate & Mark	✔	✔
Grid Scan Mode		✔
In-field depth slicing		✔
External GPS option		✔
GPR Data Export fuctionality - allows for post-processing in optional EKKO_Project software		✔
File Management	Screenshots	9 Projects containing Lines, Grids & Screenshots

Useful resources to make the most of your LMX:

- Webinars, Training Videos and other free online resources (available on www.sensoft.ca)
- Utility Locating with GPR (Nulca-accredited) interactive, online and on-demand course available on www.SensoftU.com
- Contact us to learn more about our training offerings

SENSORS & SOFTWARE
from RADIODETECTION