LMX®
LOCATE & MARK™

GROUND PENETRATING RADAR TO DETECT BOTH SHALLOW AND DEEP TARGETS SIMULTANEOUSLY

Sensors & Software

LMX100™

The simple, affordable way to locate and mark utilities in the field

Offers the perfect balance of depth penetration and high resolution for accurate locating
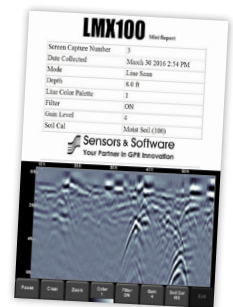
Internal GPS
Screen captures are geo-tagged for display in Google Earth™

On-site Reports
Capture screenshots and share instantly via Wi-Fi

High Resolution Touchscreen
Bright, sunlight-visible, high contrast display

Data Markers
Quickly add arrows to highlight targets and save in screen captures

GPR Sensor
High-resolution, ultra-wideband (UWB) GPR technology, ground coupled for maximum signal penetration
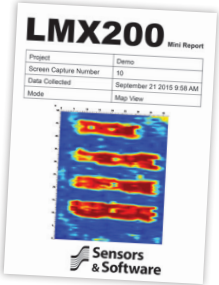
LMX200™

Advanced survey and map functionality in an intuitive and easy to use system. Acquire geo-referenced data, create depth slices on-site and easily export information for reporting.

Internal GPS
Automatically geo-tag grids and screen captures for future reference.

On-site Reports
Produce instant reports of line, grid or map view screen captures and easily email via Wi-Fi

High Resolution Touchscreen
Bright, sunlight-visible, high contrast display

Optional External GPS
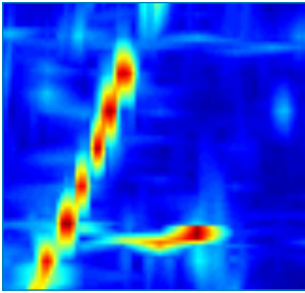Higher resolution geo-referencing of targets for CAD and GIS

GPR Sensor
High-resolution, ultra-wideband (UWB) GPR technology with enhanced target visualization.

LMX200 Mini Report

Project	Demo
Screen Capture Number	10
Data Collected	September 21 2015 9:58 AM
Mode	Map View

Sensors & Software

LMX200™ FEATURES

Achieve unprecedented insights and target confidence
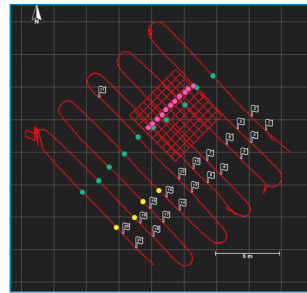
3D DEPTH SLICING

At complex sites, depth slicing reveals the orientation of pipes and cables at different depths and outlines the extent of vaults, foundations and buried tanks.
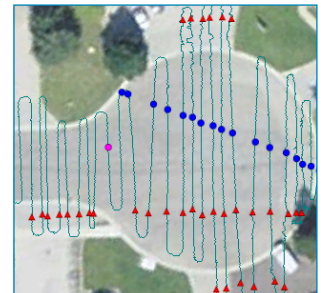
FIELD INTERPRETATIONS

Classify targets in real time with field interpretations. Use the touchscreen to color-code each target as it is located, as per utility marking standards.

MAP VIEW ON-SITE

Using the optional external GPS, identified targets and survey path are displayed on the screen in a plan map view.
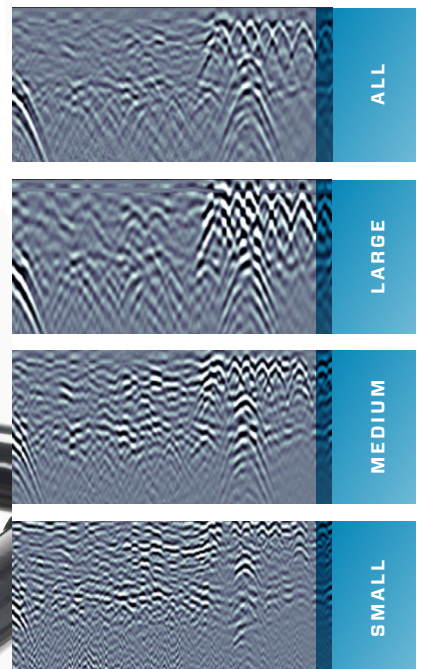
GEO-REFERENCED OUTPUT

Display your location and targets in Google Earth™ and other similar geo-referenced platforms. Easily integrate utility locations into CAD drawings and GIS databases.

DYNAMIC TARGET ENHANCEMENT (DynaT)

DynaT optimizes views of small, medium and large targets. These views can be toggled, giving you unprecedented insights and target confidence.
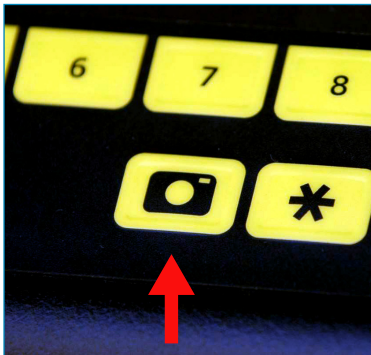

ALL

LARGE

MEDIUM

SMALL

LMX® FAMILY FEATURES

Detect traditionally non-locatable subsurface features

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
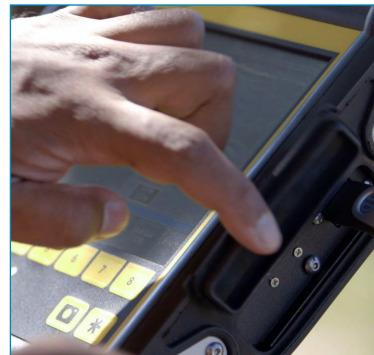
Features of the LMX® include:

SCREEN CAPTURES

Easily save screen captures of your survey data to an image gallery.

USB DATA TRANSFER

Data saved on the display can be transfered to a USB memory stick for archiving and analysis.

Automatic Google Earth™ output (KMZ)

Rugged, lightweight cart

Wi-Fi connectivity

Hyperbola velocity calibration

Horizontal scaling

SPECIFICATIONS

	LMX100™	LMX200™
Data Analysis	Real-time Locate & Mark In-field analysis	Real-time Locate & Mark In-field depth slicing **Enhanced**: Post-processing analysis using EKKO_Project™
Signal Enhancement	DynaQ stacking, spatial filtering, depth and horizontal zoom	DynaQ stacking, DynaT, spatial filtering, depth and horizontal zoom
Data Storage	8 GB internal >40,000 data images (.jpg)	350 km (>200 miles) of line data in internal memory
Dimensions & Weight	**Size**: 100 × 70 × 115 cm (39.4 × 27.6 × 45.3 in) **Weight**: 22kg (48 lbs) **Screen Size**: 21 cm (8 in) diagonal **OPTIONAL:** **System Transport Case**: 81 × 74 × 51 cm (32 × 29 × 20 in) **Display Unit Carrying Case (soft)**: 34 × 30 × 14 cm (13.5 × 12 x 5 in) **Display Unit Carrying Case (hard)**: 47 × 36 × 18 cm (18 × 14 x 7 in)	
Power	1.25 A @ 12 V **Battery**: Sealed Lead Acid Gel Cell **Life**: 4-6 hrs **Capacity**: 9 Ah **Charger**: 110 - 240 V for use all over the world	
Environmental	IP65 **Temperature**: **Sensor**: -40°C +50°C **Display Unit**: -20°C +50°C	
Depth	Always collects data to 8 m (26 ft), user defined viewing depths	

LMX200™ Enhanced provides access to digital data for advanced processing, analysis and reporting.

LMX200™ Enhanced option includes:

- Display Unit upgrade package

- EKKO _Project™ software

Regulatory Specifications: Meets FCC 15.509, Industry Canada RSS-220, ETSI EN-302066

EKKO_Project™

GPR Analysis & Reporting Software

Organized File Management

GPR Summary Report

EKKO_Project

Data exported from LMX200™ Enhanced uses the EKKO_Project™ PC software for Data Management, Display, Archiving and Reporting.
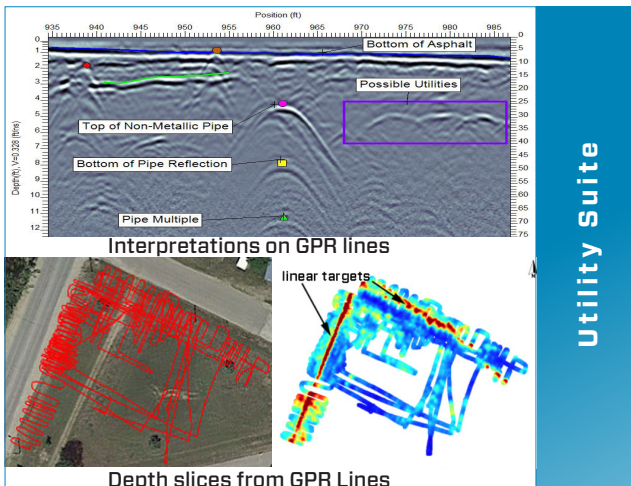
Simple GPR project organization:
Organize GPR lines & grids, add photos and other files, and save everything in a single project file.

View GPR data:
View GPR lines and depth slices. Slice through multiple grids simultaneously, and add background images to MapView.

Create Impressive Reports:
Quickly save data as graphic image files (.jpg, .bmp, .png). Automatically create summary reports with data, photographs and text and export as a PDF.

Interpretations on GPR lines

Depth slices from GPR Lines

Utility Suite

Add Additional Functionality with the Utility Suite

includes LineView, SliceView and Interpretation modules.

- Modify line views and depth slices
- Process GPR line surveys into depth slices
- Export depth slices into Google Earth™
- Add point, polyline, box and annotation interpretations to GPR lines

Sensors & Software Inc.

+1 905 624 8909
+1 800 267 6013

1040 Stacey Court
Mississauga, ON
Canada L4W 2X8

sales@sensoft.ca
www.sensoft.ca

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Subsurface imaging solutions