

F LMX100

LOCATE & MARK[®] Ground Penetrating Radar for Utility Locating

₩ LMK200

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

High visibility touch screen display unit

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



- 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



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



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USB for easy data transfer



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.

Depth Slice through multiple grids on-site

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









Evit

Obstacle avoidance

System guides data collection around an obstacle in your grid.

Features unlocked with GPS

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



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) Dipplay. Unit cize: 21 cm (8 in) diagonal

Display Unit size: 21 cm (8 in) diagonal

Power

12 Volt Sealed Lead Acid Gel Cell Battery Capacity: 9.0 Ah Battery Life: 4 - 6 hours

Weight: 3.6 kg (7.9 lbs) **Charger:** 110 – 240V

Environmental & Temperature

Ruggedized, environmentally sealed unit and connections

IP65 Operating temperature range: -104 to 122°F (-40 to 50°C)

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



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

Dynamic Stacking (DynaQ®)



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





Adjustable Gain



Optimize visibility of your targets with preset filters & gain

Dynamic Target Enhancement (DynaT™)



Enhance small, medium & large targets

Get faster deliverables

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



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

Geo-tagged information for reports & archiving



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

LMX200 Enhanced Upgrade

- Project organization (up to 9 projects)
- Data export of GPR lines, grids and screenshots
- EKKO_Project™ PC software for analysis and reporting



EKKO_Project

- Save GPR lines, grids, photos and other files as a single project (.GPZ) file
- Automatically create GPR summary reports (PDF)

Comparison Table



Interpretations on GPR lines



Depth slices from GPR Lines

Optional Utility Suite

Includes LineView, SliceView and Interpretation
 modules

Feature	LMX100™	LMX200™	LMX200™ Enhanced
Real-time Locate & Mark	✓	✓	 ✓
Grid Scan Mode		 ✓ 	✓
In-field depth slicing		 ✓ 	 ✓
External GPS option		 ✓ 	✓
GPR Data export and EKKO_Project GPR Analysis, Processing and Reporting Software			✓
File Management	Screenshots	Lines, Grids & 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)
- Contact us to learn more about our training offerings



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