LMX
LOCATE & MARK™

GROUND PENETRATING RADAR TO DETECT BOTH SHALLOW AND DEEP TARGETS SIMULTANEOUSLY
Acquire geo-reference data, create depth slices on-site and wirelessly export all information in formatted reports.

**Internal GPS**
Geo-tagging targets in reports and Google Earth™

**On-site Reports**
Produce instant reports from your unit. Include screen captures and line/grid/map view information

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

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

**Wi-Fi Connection**
Connect to a Wi-Fi network or hotspot and instantly email a mini-report to your office or customers
Unprecedented insights and target confidence
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

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.

MAP VIEW ON-SITE DISPLAY
Using the optional external GPS, identified targets are displayed on the screen in a plan map view.

SCREEN CAPTURES
At any point during the survey save screen captures of line data, map views and depth slices.

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.

USB DATA TRANSFER
Data is saved to a memory stick for archiving and transfer to a computer.
DynaT optimizes views of small, medium and large targets. These views can be toggled, giving you unprecedented insights and target confidence.

**Specifications**

<table>
<thead>
<tr>
<th>LMX100</th>
<th>LMX200</th>
</tr>
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<tbody>
<tr>
<td><strong>Data Analysis</strong></td>
<td></td>
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<tr>
<td>In-field analysis</td>
<td>In-field analysis</td>
</tr>
<tr>
<td>Enhanced: Post-processing analysis using EKKO_Project</td>
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<tr>
<td><strong>Signal Enhancement</strong></td>
<td></td>
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<tr>
<td>DynaQ stacking, spatial filtering</td>
<td>DynaQ stacking, DynaT, spatial filtering</td>
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<tr>
<td><strong>Data Storage</strong></td>
<td></td>
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<tr>
<td>&gt;10,000 graphic data images (.jpg) depending on external flash memory (up to 64 GB)</td>
<td>350 km (&gt;200 miles) of line data in internal memory</td>
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<tr>
<td><strong>Dimensions &amp; Weight</strong></td>
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<tr>
<td>Size: 100 x 70 x 115 cm (39.4 x 27.6 x 45.3 in)</td>
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<tr>
<td>Weight: 22kg (48 lbs)</td>
<td>Screen Size: 21 cm (8 in) diagonal</td>
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<tr>
<td><strong>OPTIONAL:</strong></td>
<td></td>
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<tr>
<td>System Transport Case: 81 x 74 x 51 cm (32 x 29 x 20 in)</td>
<td></td>
</tr>
<tr>
<td>Display Unit Carrying Case: 34 x 30 x 14 cm (13.5 x 12 x 5 in)</td>
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<tr>
<td><strong>Power</strong></td>
<td></td>
</tr>
<tr>
<td>1.25 A @ 12 V</td>
<td></td>
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<tr>
<td>Battery: Sealed Lead Acid Gel Cell</td>
<td>Life: 4-6 hrs Capacity: 9 Ah</td>
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<tr>
<td>Charger: 110 - 240 V for use all over the world</td>
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<tr>
<td><strong>Environmental</strong></td>
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<tr>
<td>IP65</td>
<td></td>
</tr>
<tr>
<td>Temperature: Sensor: -40°C +50°C</td>
<td>Display Unit: -10°C +50°C</td>
</tr>
<tr>
<td><strong>Depth</strong></td>
<td></td>
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<tr>
<td>Collects data to 8 m (26 ft)</td>
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**LMX200 Enhanced option includes:**

- Display Unit upgrade package
- EKKO_Project software

LMX100 and LMX200 are available in multiple languages

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

Regulatory Specifications: Meets FCC 15.509, Industry Canada RSS-220, ETSI EN-302086
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

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

**Field-proof Display**
Rugged, weatherproof, sunlight-visible data logger used for data acquisition, data display and processing

**Multi-language Menu**
Selective menu in more than 10 languages

**Lightweight Cart**
Rugged fiberglass cart eliminates metallic structure interference

**Fully Enclosed Odometer**
Enables precision data collection even in poor terrain

LMX100 is also available with a High Resolution screen. Additional features include:

- Touchscreen
- Data Markers
- Wi-fi
- Mini-reports
- Internal GPS
- Geo-tagging
- System Usage Report
- USB for data transfer
- Full collection review
- Digital hyperbola calibration
- Horizontal scaling
Data exported from the LMX200 Enhanced system uses the EKKO_Project software for data management, data integration and GPR data display:

MapView displays grids and GPR lines collected with GPS

Display GPR lines and save them to graphic image files such as .jpg, .bmp and .png

Display depth slices generated by processing GPR grid data. Slice up and down in depth through the data volume to reveal targets. Slice through multiple grids with different orientations simultaneously

Create impressive reports containing data images and photographs, add text and output to a PDF report

Utility Suite

EKKO_Project can be enhanced with the Utility Suite software for more advanced data analysis and reporting:

LineView module for modifying and displaying GPR lines

SliceView module for modifying and displaying depth slices from GPR grid data and plotting them in Google Earth™ (kmz) files

Interpretation module for adding point, polyline, box and annotation interpretations to GPR lines in post-processing