RD1100™ & RD1500™
Ground Penetrating Radar

Complete range of utility-locating radars
Geo-referenced data
Display the position of your surveys in Google Earth™ and other geo-referencing programs.

Screen captures
Add markers via the touch screen display to highlight features of interest.

Depth Slices (RD1500)
View horizontal slices at different depths to display cables, pipes and other utilities in unprecedented clarity.

On-site Map View (RD1500)
View your identified features in plan map view using the optional external GPS.

Radiodetection’s RD1100 & RD1500 Ground Penetrating Radar
Innovative tools for finding buried utilities

RD1100 provides locate professionals, surveyors and other users with the tool they need to trace and mark the position of all types of cable and pipe, including plastic and ceramic. Built in as standard is the ability to take Screenshots which are saved to internal memory for immediate emailing via Wi-Fi or later export to USB memory stick. GPS positioning is captured for integration into Google Earth™.

RD1500 takes utility locating to the next level, offering users easily interpreted Depth Slices as well as traditional Line Views. Use proprietary FrequenSee™ technology to highlight small/shallow, medium or large/deep buried utilities. Enhance the RD1500 with software to export GPR data and perform detailed analysis, and with external GPS for higher positional accuracy.

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Advanced Reporting with RD1500 data analysis PC software

RD1500’s Enhancement Package includes the comprehensive EKKO_Project PC software solution for GPR data analysis and management, allowing you to:

• Slice through the depth data on your computer
• Generate PDF reports that include data images, screenshots and photos alongside your text and company logo
• Export data to other formats like CSV, SEG-Y etc.

3 additional modules to add to the Enhancement Package, for even greater levels of analysis, are available in Utility Suite:

• LineView modifies and displays GPR lines
• SliceView processes and displays grid data, and can output data for 3D visualization and geo-referencing software programs
• Interpretation for adding point, polyline, box and annotation interpretations to GPR lines in post-processing

Table of specifications

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<th>RD1100 &amp; RD1500</th>
<th>Options &amp; comments</th>
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<tbody>
<tr>
<td>Sensor frequency</td>
<td>250MHz Ultra Wide Band</td>
</tr>
<tr>
<td>Data Analysis</td>
<td>In field analysis</td>
</tr>
<tr>
<td>Touch Screen Display</td>
<td>Size: 21cm (8&quot;) diagonal</td>
</tr>
<tr>
<td>Power</td>
<td>Consumption: 1.25A at 12V Battery: 12V, 9Ah Lead Acid Battery life typically 4-6hrs</td>
</tr>
<tr>
<td>Spatial interval</td>
<td>5 cm (2&quot;)</td>
</tr>
<tr>
<td>Depth range</td>
<td>Up to 8m (27&quot;) maximum Ground conditions dependent</td>
</tr>
<tr>
<td>Display depth scale</td>
<td>1m-8m (3'-30&quot;)</td>
</tr>
<tr>
<td>Languages supported</td>
<td>Non-lingual icons, English, Spanish, French, German</td>
</tr>
<tr>
<td>Dimensions (H x W x D)</td>
<td>100 x 70 x 115cm (39.4 x 27.6 x 45.3&quot;)</td>
</tr>
<tr>
<td>Weight</td>
<td>22 kg (48lb)</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>Display: -10° to +50°C (14°F to +122°F) Sensor: -40°C to +50°C (-40°F to 122°F)</td>
</tr>
<tr>
<td>Environmental protection</td>
<td>IP65</td>
</tr>
<tr>
<td>Compliance</td>
<td>CE, FCC, ETSI, Industry Canada</td>
</tr>
<tr>
<td>Standard warranty</td>
<td>1 year</td>
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</tbody>
</table>

RD1500: Includes FrequenSee

RD1500: Post-processing analysis with EKKO_Project and Utility Suite (option)

Enhanced: Upgraded Display Unit package

Instant email
Generate and deliver mini reports from your survey site by connecting to a Wi-Fi network or by using your phone as a hotspot.
Instant information, higher productivity.
GPR system accessories

A comprehensive range of accessories complement the RD1100 and RD1500, broadening their application range, and to provide extra protection during transport.

The products' modular designs also allow for replacement of a number of the key component parts without requiring specialist tools.

Wheel sets
Large Wheel Set for GPR Carts  
Part No: 10/GPRLGWHWHEELS
- Set of 4 wheels for GPR  
  Part No: 10/GPRWHEELSET  
- 1 x GPR wheel  
  Part No: 10/GPRWHEEL

Transport options
Hard case for GPR display  
Part No: 10/GPRDISPLAYCASE
- Soft case for GPR display unit  
  Part No: 10/GPRDISPBAG
- Flight case for GPR system  
  Part No: 10/GPRFLIGHTCASE

Software
RD1500 Enhancement Upgrade  
Part No: 10/RD1500EUPGRADE
- RD1500 Utility Suite Analysis Software  
  Part No: 10/UTILITY_SUITE

Replacement parts
RD1100 sensor assembly  
Part No: 10/RD1100SENSOR
- RD1500 sensor assembly  
  Part No: 10/RD1500SENSOR
- Replacement sensor skid pad  
  Part No: 10/GPRSKIDPAD
- RD1100 display unit  
  Part No: 10/RD1100DISPLAY

RD1500 display unit  
Part No: 10/RD1500DISPLAY
- Display mount assembly  
  Part No: 10/GPRMOUNT
- RD1100 GPR cart handle  
  Part No: 10/RD1100HANDLE
- RD1500 GPR cart handle  
  Part No: 10/RD1500HANDLE
- GPR lower cart assembly (no wheels)  
  Part No: 10/GPRCART
- GPR replacement battery pack  
  Part No: 10/GPRBATTERY
- Battery Charger – 100V-240V for global use  
  Part No: 10/GPRCHARGE
- Mains leads for battery charger  
  Part numbers:  
  US / CAN type: 04/MC-1020  
  European type: 04/MC-3020  
  UK type: 04/MC-5020  
  Australia type: 17/GP3071-C13-25-BK-10A-I
- GPR Battery cable  
  Part No: 10/GPRBATTCABLE
- Display to sensor connection cable  
  Part No: 10/GPRDISPCABLE
- GPR Odometer Assy and Cable  
  Part No: 10/GPRODOMETER
- Battery Strap  
  Part No: 10/GPRBATTSTRAP
- GPR 13” Sensor support strap  
  Part No: 10/GPRSTRAP
- GPR Handle Pin x 2  
  Part No: 10/GPRPIN
- RD1500 GPS Package  
  Part No. 10/RD1500GPSPACKAGE
FreQuenSee™

Allows the user to select the low, medium or high part of the frequency spectrum giving the benefits of multiple antennas while maintaining the quality of a single antenna system.

FreQuenSee exploits the wide bandwidth of the RD1500 antenna, selectively enhancing shallow and small, medium depth and size, or deep and large targets. Or all at once!