RD1100™ & RD1500™
Ground Penetrating Radar

Complete range of utility-locating radars
Radiodetection’s RD1100 & RD1500 Ground Penetrating Radar

Innovative tools for finding buried utilities

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.

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.
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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<tr>
<td>Sensor frequency</td>
<td>250MHz Ultra Wide Band</td>
<td><strong>RD1500:</strong> Includes FrequenSee</td>
</tr>
<tr>
<td>Data Analysis</td>
<td>In field analysis</td>
<td><strong>RD1500:</strong> Post-processing analysis with EKKO_Project and Utility Suite (option)</td>
</tr>
<tr>
<td>Touch Screen Display</td>
<td>Size: 21cm (8&quot;) diagonal</td>
<td><strong>Enhanced:</strong> Upgraded Display Unit package</td>
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<tr>
<td>Power</td>
<td>Consumption: 1.25A at 12V Battery: 12V, 9Ah Lead Acid</td>
<td>Battery life typically 4-6hrs</td>
</tr>
<tr>
<td>Spatial interval</td>
<td>5 cm (2&quot;)</td>
<td></td>
</tr>
<tr>
<td>Depth range</td>
<td>Up to 8m (27&quot;) maximum</td>
<td>Ground conditions dependent</td>
</tr>
<tr>
<td>Display depth scale</td>
<td>1m-8m (3'-30&quot;)</td>
<td></td>
</tr>
<tr>
<td>Languages supported</td>
<td>Non-lingual icons, English, Spanish, French, German</td>
<td></td>
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<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>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>22 kg (48lb)</td>
<td></td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>Display: -10°C to +50°C (14°F to +122°F) Sensor: -40°C to +50°C (-40°F to 122°F)</td>
<td></td>
</tr>
<tr>
<td>Environmental protection</td>
<td>IP65</td>
<td></td>
</tr>
<tr>
<td>Compliance</td>
<td>CE, FCC, ETSI, Industry Canada</td>
<td></td>
</tr>
<tr>
<td>Standard warranty</td>
<td>1 year</td>
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**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/GPRLGWHEELS

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/GPRSKitPAD

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/GPRBATTTCABLE

Display to sensor connection cable
Part No: 10/GPRDISPCABLE

GPR Odometer Assy and Cable
Part No: 10/GPRODOMETER

Battery Strap
Part No: 10/GPBATTSTRAP

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
High Resolution, touch screen display

Wi-Fi and USB for transfer of data. Built-in GPS

External GPS option for RD1500

Battery

Antenna system optimised for location of buried utilities. RD1500 version includes FrequenSee™

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!
Global locations

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Radiodetection is a leading global developer and supplier of test equipment used by utility companies to help install, protect and maintain their infrastructure networks.