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 FrequentSee™ 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

<table>
<thead>
<tr>
<th></th>
<th>RD1100 &amp; RD1500</th>
<th>Options &amp; comments</th>
</tr>
</thead>
<tbody>
<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”) diagonal</td>
<td><strong>Enhanced:</strong> Upgraded Display Unit package</td>
</tr>
<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”)</td>
<td></td>
</tr>
<tr>
<td>Depth range</td>
<td>Up to 8m (27’) maximum</td>
<td>Ground conditions dependent</td>
</tr>
<tr>
<td>Display depth scale</td>
<td>1m-8m (3'-30’)</td>
<td></td>
</tr>
<tr>
<td>Languages supported</td>
<td>Non-lingual icons, English, Spanish, French, German</td>
<td></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”)</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° 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>
<td></td>
</tr>
</tbody>
</table>
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
  - 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/GPRBATTTCABLE
- 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
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™

Odometer

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!

Utility Suite exports to 3D visualization and geo-referencing software
Visit www.radiodetection.com

Global locations

Radiodetection (USA)
28 Tower Road, Raymond, Maine 04071, USA
Toll Free: +1 (877) 247 3797  Tel: +1 (207) 655 8525  rd.sales.us@spx.com

Pearpoint (USA)
39-740 Garand Lane, Unit B, Palm Desert, CA 92211, USA
Toll Free: +1 800 688 8094  Tel: +1 760 343 7350  pearpoint.sales.us@spx.com  www.pearpoint.com

Radiodetection (Canada)
344 Edgeley Boulevard, Unit 34, Concord, Ontario L4K 4B7, Canada
Toll Free: +1 (800) 665 7953  Tel: +1 (905) 660 9995  rd.sales.ca@spx.com

Radiodetection Ltd. (UK)
Western Drive, Bristol, BS14 0AF, UK
Tel: +44 (0) 117 976 7776  rd.sales.uk@spx.com

Radiodetection (France)
13 Grande Rue, 76220, Neuf Marché, France
Tel: +33 (0) 2 32 89 93 60  rd.sales.fr@spx.com

Radiodetection (Benelux)
Industriestraat 11, 7041 GD ’s-Heerenberg, Netherlands
Tel: +31 (0) 314 66 47 00  rd.sales.nl@spx.com

Radiodetection (Germany)
Groendahlscher Weg 118, 46446 Emmerich am Rhein, Germany
Tel: +49 (0) 28 51 92 37 20  rd.sales.de@spx.com

Radiodetection (Asia-Pacific)
Room 708, CC Wu Building, 302-308 Hennessy Road, Wan Chai, Hong Kong SAR, China
Tel: +852 2110 8160  rd.sales.asiapacific@spx.com

Radiodetection (China)
13 Fuqianyi Street, Minghao Building D304, Tianzhu Town, Shunyi District, Beijing 101312, China
Tel: +86 (0) 10 8146 3372  rd.service.cn@spx.com

Radiodetection (Australia)
Unit H1, 101 Rookwood Road, Yagoona NSW 2199, Australia
Tel: +61 (0) 2 9707 3222  rd.sales.au@spx.com

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