

RADIODETECTION®

RD1100™ & RD1500™ Ground Penetrating Radar

Complete range of utility-locating radars



SPX®

Radiodetection's RD1100 & RD1500 Ground Penetrating Radar

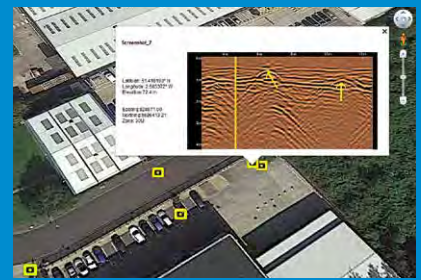
Innovative tools for finding
buried utilities



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™.

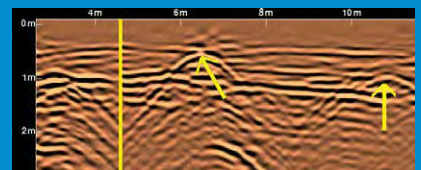
RD1500 takes utility locating to the next level, offering users easily interpreted Depth Slices as well as traditional Line Views.

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.



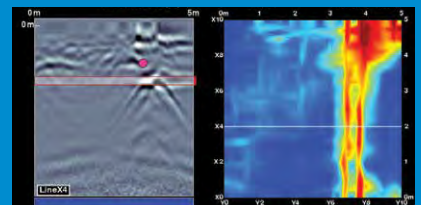
Geo-referenced data

Display the position of your surveys in Google Earth™ and other geo-referencing programs.



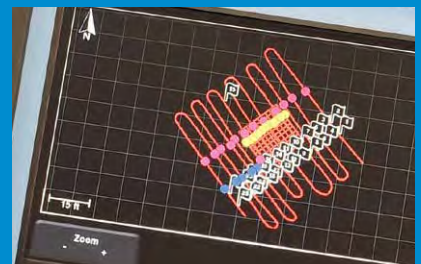
Screen captures

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.

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

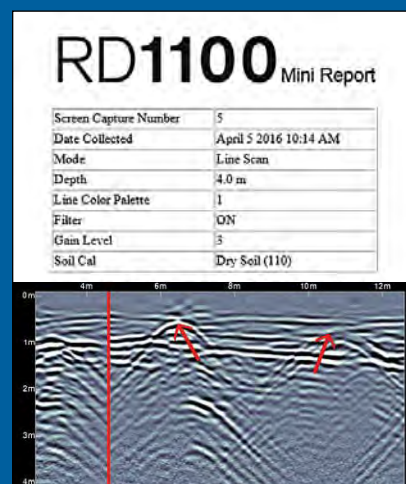
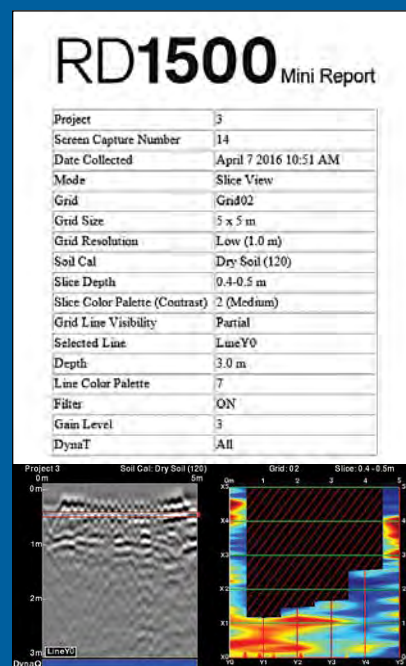
Table of specifications

	RD1100 & RD1500	Options & comments
Sensor frequency	250MHz Ultra Wide Band	RD1500: Includes FrequenSee
Signal Enhancement	DynaQ (optimizes data quality with cart speed). Spatial filtering.	
Data Analysis	In field analysis	RD1500: Post-processing analysis with EKKO_Project and Utility Suite (option)
Touch Screen Display	Size: 21cm (8") diagonal	Enhanced: Upgraded Display Unit package
Power	Consumption: 1.25A at 12V Battery: 12V, 9Ah Lead Acid	Battery life typically 4-6hrs
Spatial interval	5 cm (2")	
Depth range	Up to 8m (27') maximum	Ground conditions dependent
Display depth scale	1m-8m (3'-30')	
Languages supported	Non-lingual icons, English, Spanish, French, German	
Dimensions (H x W x D)	100 x 70 x 115cm (39.4 x 27.6 x 45.3")	
Weight	22 kg (48lb)	
Operating temperature range	Display: -10° to +50°C (14°F to +122°F) Sensor: -40°C to +50°C (-40°F to 122°F)	
Environmental protection	IP65	
Compliance	CE, FCC, ETSI, Industry Canada	
Standard warranty	1 year	



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

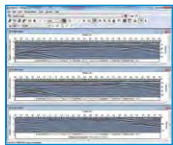
Part No: 10/GPRFLIGHTCASE



Software

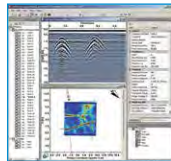
RD1500 Enhancement Upgrade

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/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



High Resolution,
touch screen display

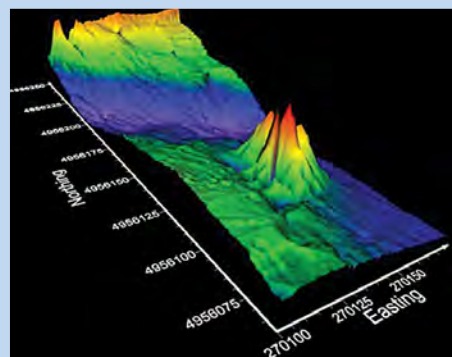
Wi-Fi and USB for transfer
of data. Built-in GPS

External GPS option
for RD1500

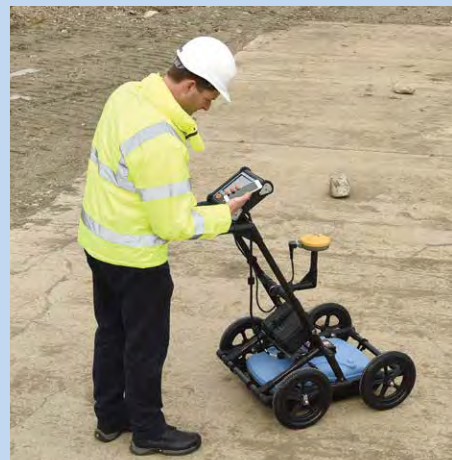
Battery

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

Odometer



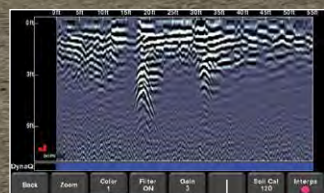
3D data exported using Utility Suite



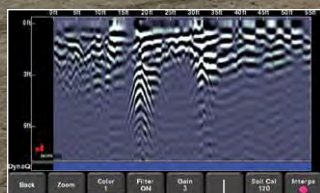
FrequenSee™

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.

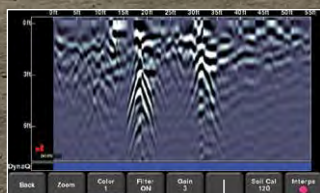
FrequenSee exploits the wide bandwidth of the RD1500 antenna, selectively enhancing shallow and small, medium depth and size, or deep and large targets. Or all at once!



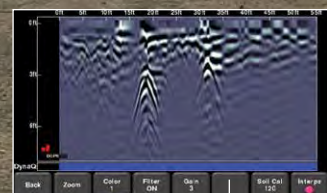
Small



Medium



Large



All

Global locations

Radiodetection (USA)

28 Tower Road, Raymond, Maine 04071, USA

Tel: +1 (207) 655 8525 Toll Free: +1 (877) 247 3797 rd.sales.us@spx.com www.radiodetection.com

Pearpoint (USA)

39-740 Garand Lane, Unit B, Palm Desert, CA 92211, USA

Tel: +1 800 688 8094 Tel: +1 760 343 7350 pearpoint.sales.us@spx.com www.radiodetection.com

Radiodetection (Canada)

344 Edgeley Boulevard, Unit 34, Concord, Ontario L4K 4B7, Canada

Tel: +1 (905) 660 9995 Toll Free: +1 (800) 665 7953 rd.sales.ca@spx.com www.radiodetection.com

Radiodetection Ltd. (UK)

Western Drive, Bristol, BS14 0AF, UK

Tel: +44 (0) 117 976 7776 rd.sales.uk@spx.com www.radiodetection.com

Radiodetection (France)

13 Grande Rue, 76220, Neuf Marché, France

Tel: +33 (0) 2 32 89 93 60 rd.sales.fr@spx.com <http://fr.radiodetection.com>

Radiodetection (Benelux)

Industriestraat 11, 7041 GD 's-Heerenberg, Netherlands

Tel: +31 (0) 314 66 47 00 rd.sales.nl@spx.com <http://nl.radiodetection.com>

Radiodetection (Germany)

Groendahlscher Weg 118, 46446 Emmerich am Rhein, Germany

Tel: +49 (0) 28 51 92 37 20 rd.sales.de@spx.com <http://de.radiodetection.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 www.radiodetection.com

Radiodetection (China)

Room 5-10, Workshop 4, No. 10 Zhenggezhuang Village, Beiqijia Town, Changping District, Beijing 102209, China

Tel: +86 (0) 10 8178 5652 rd.service.cn@spx.com <http://cn.radiodetection.com>

Radiodetection (Australia)

Unit H1, 101 Rookwood Road, Yagoona NSW 2199, Australia

Tel: +61 (0) 2 9707 3222 rd.sales.au@spx.com www.radiodetection.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.