

RADIODETECTION®

# RD7100™ locator specification

Precision locators



SPX®

# RD7100 Locator Specification

## 1. Product Summary

1.1 Product Descriptions:	Precision Buried Utility Locator Precision Cable and Pipe Locator Locate System Receiver Utility Specific Precision Locator
1.2 Intended Use:	Locating the position / path of buried pipes and cables Detecting and pinpointing insulation faults on buried pipes and cables
1.3 Standard Equipment:	Locator Quickstart guide Mini USB 2.0 compliant data cable

## 2. Performance

2.1 Sensitivity:	6E-15 Tesla 5µA at 1 meter (33kHz)
2.2 Dynamic range:	140dB rms/√Hz
2.3 Selectivity:	120dB/Hz
2.4 Depth measurement precision <sup>1</sup> :	± 3%
2.5 Locate accuracy:	± 5% of depth
2.6 Active Locate filter bandwidth:	± 3Hz, 0 < 1kHz ± 10Hz, ≥ 1kHz
2.7 Start-up time:	Less than 1 second
2.8 Maximum depth readout <sup>2</sup> :	Metric: Cable / Pipe: 30m Sonde: 19.5m Imperial: Cable / Pipe: 98' Sonde: 64'

## 3. Locate Functions

3.1 Active Locate Modes:	Up to four, model dependent: <ul style="list-style-type: none"> <li>▪ Peak</li> <li>▪ Peak+™ (choice of combined Peak &amp; Guidance or Peak &amp; Null)</li> <li>▪ Guidance</li> <li>▪ Null</li> </ul>																																																																																
3.2 Gain control:	Guidance Mode: Automatic Other modes: Manual gain using "+" or "-" with one touch to return to center (50% of Full Scale)																																																																																
3.3 Active locate frequencies:	Up to seven: <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr style="background-color: #cccccc;"> <th>RD7100 MODEL</th> <th>SL</th> <th>DL</th> <th>DLG</th> <th>PL</th> <th>PLG</th> <th>TL</th> <th>TLG</th> </tr> </thead> <tbody> <tr> <td>Active frequencies</td> <td>4</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> <td>7</td> <td>7</td> </tr> <tr> <td>512Hz</td> <td></td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> </tr> <tr> <td>640Hz</td> <td></td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> </tr> <tr> <td>8kHz (8192Hz)</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> </tr> <tr> <td>33kHz (32768Hz)</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> </tr> <tr> <td>65kHz (65536Hz)</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> </tr> <tr> <td>83kHz (83077Hz)</td> <td>●</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>131kHz (131072Hz)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>●</td> <td>●</td> </tr> <tr> <td>200kHz (200000Hz)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>●</td> <td>●</td> </tr> </tbody> </table>	RD7100 MODEL	SL	DL	DLG	PL	PLG	TL	TLG	Active frequencies	4	5	5	5	5	7	7	512Hz		●	●	●	●	●	●	640Hz		●	●	●	●	●	●	8kHz (8192Hz)	●	●	●	●	●	●	●	33kHz (32768Hz)	●	●	●	●	●	●	●	65kHz (65536Hz)	●	●	●	●	●	●	●	83kHz (83077Hz)	●							131kHz (131072Hz)						●	●	200kHz (200000Hz)						●	●
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<b>3.7 Power Filters™ function:</b>	<p>Switch out of Radiodetection's sensitive Power Mode to locate on any of 5 individual mains harmonic frequencies. (RD7100PL and RD7100PLG models only).</p> <table border="1"> <thead> <tr> <th>HARMONIC</th> <th>50 Hz regions</th> <th>60 Hz regions</th> </tr> </thead> <tbody> <tr> <td>Primary</td> <td>50 Hz</td> <td>60 Hz</td> </tr> <tr> <td>3rd</td> <td>150 Hz</td> <td>180 Hz</td> </tr> <tr> <td>5th</td> <td>250 Hz</td> <td>300 Hz</td> </tr> <tr> <td>7th</td> <td>350 Hz</td> <td>420 Hz</td> </tr> <tr> <td>9th</td> <td>450 Hz</td> <td>540 Hz</td> </tr> </tbody> </table>	HARMONIC	50 Hz regions	60 Hz regions	Primary	50 Hz	60 Hz	3rd	150 Hz	180 Hz	5th	250 Hz	300 Hz	7th	350 Hz	420 Hz	9th	450 Hz	540 Hz																						
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<b>3.8 Information displayed:</b>	<ul style="list-style-type: none"> <li>▪ Signal strength - moving bar graph and numeric value</li> <li>▪ Mode indication (Peak, Null, Guidance, Peak+ with option of Guidance arrows or Null arrows)</li> <li>▪ Line or Sonde locate type</li> <li>▪ Proportional left/right indication</li> <li>▪ Compass: full 360° line direction indicator</li> <li>▪ Accessories in use indication</li> <li>▪ Accessory specific custom screen</li> <li>▪ Simultaneous depth and current readout (Line location)</li> <li>▪ Depth readout (Sonde location)</li> <li>▪ Gain level (in dB)</li> <li>▪ Frequency selected</li> <li>▪ Battery condition</li> <li>▪ Speaker volume</li> <li>▪ Operating frequency</li> <li>▪ GPS satellites in view (where fitted)</li> <li>▪ GPS status (where fitted)</li> <li>▪ Configuration menu and submenus</li> <li>▪ Software version</li> <li>▪ Last calibration date</li> <li>▪ Fault Find mode indicator (model dependent)</li> <li>▪ StrikeAlert™ warning</li> <li>▪ Overload warning</li> </ul>																																								
<b>3.9 Audio output tones:</b>	<p><b>Power / Radio modes:</b> Real Sound™ derived from detected electromagnetic signal</p> <p><b>Peak / Peak+ modes:</b> Synthesized audio tone proportional to signal strength</p> <p><b>Guidance mode:</b> Continuous tone when locator is to the left of target, intermittent tone when to the right of target</p> <p><b>Null mode:</b> Synthesized audio tone proportional to signal strength. Low pitch to left of target, high pitch to right of target</p> <p><b>StrikeAlert audio warning:</b> Audio feedback for menu navigation</p>																																								

3.10 Accessory locate functions:	<p><b>Locator clamps:</b> Used to identify individual target cable(s) in a bundle or cabinet using signal strength read-out</p> <p><b>Stethoscopes:</b> Used to identify individual target cable(s) in a bundle or confined space such as a cabinet using signal strength read-out</p>
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## 4. Locate Function Enhancements

4.1 StrikeAlert:	Audio and visual warning when a cable or pipe less than 12" / 30cm deep is detected. Operates in Active and Passive locating modes
4.2 Dynamic Overload Protection™:	<p>40dB, automatic</p> <ul style="list-style-type: none"> <li>Automatically manages the system gain to compensate for strong signals e.g. from mains power or substations, to enable accurate locating</li> </ul>
4.3 Simultaneous depth and current readout:	Both utility depth and locate signal current are displayed simultaneously, giving the operator more information to help them to follow the target utility
4.4 Fault Find:	<p>Apply a Fault Find signal with a Tx-5 and Tx-10 transmitter, then use an accessory A-Frame to detect and pinpoint insulation faults (RD7100PL, PLG, TL, TLG models only)</p> <p>Fault find accuracy: Metric: 100mm Imperial: 4"</p>
4.5 Peak+ mode:	Use the accurate Peak bargraph, and add either proportional Guidance arrows for faster locating, or Null arrows to check for the presence of distortion

## 5. Configurability

5.1 Option selection:	All options can be enabled or disabled on the locator or using the RD Manager PC software
5.2 Languages supported:	Fourteen: English, French, German, Dutch, Polish, Czech, Slovakian, Spanish, Portuguese, Swedish, Italian, Turkish, Russian, Hungarian
5.3 Mains power network options:	50 Hz or 60 Hz
5.4 Mode selection:	All locate modes with the exception of Peak Mode can be individually enabled or disabled
5.5 Active frequency selection:	All active frequencies available can be individually enabled or disabled
5.6 Passive mode selection:	All passive modes can be individually enabled or disabled
5.7 StrikeAlert:	Enable / disable
5.8 Peak+ arrow selection:	<p>Guidance arrows or Null arrows</p> <p>Selected using the locator menu or with a long press of the antenna key</p>
5.9 GNSS ('GPS') settings:	Internal / Off / Reset. SBAS On / Off
5.10 Time / date setting:	Correct or update locator real-time clock using the RD Manager PC software or GNSS signals (GPS/Logging enabled units)

## 6. Connectivity

6.1 Wired connections:	<p><b>Mini USB:</b> Connect to a PC to configure and update locator, and to retrieve usage log</p> <p><b>3.5mm Stereo jack:</b> Connect wired headphones</p> <p><b>Accessory port:</b> Connect Radiodetection accessories</p>
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## 7. Data capabilities and GNSS ('GPS')

7.1 Usage-logging and GNSS ('GPS'):	RD7100 MODEL	SL	DL	DLG	PL	PLG	TL	TLG
	Usage-logging			●		●		●
	On-board GNSS ('GPS')			●		●		●
7.2 Usage-logging memory:	4 GB							
7.3 Usage-logging capacity:	Over 500 days, measured at 8 hours use per day							
7.4 Usage-logging capture rate:	1/ second							
7.5 Usage parameters logged:	Serial number Log reference and id Operating mode Locate frequency Sonde/line Signal strength Gain setting Depth Current Accessory in use Antenna mode Arrows readout Compass angle Overload status Dynamic Overload Protection Status	Keys pressed Audio status Volume Menu in use Battery status User warnings status StrikeAlert status Fault find arrow SideStep status Language Depth units Power setting Compass setting <b>Logging Units:</b> Date and time	<b>With a GNSS fix:</b> Latitude Longitude Altitude GNSS date and time Horizontal Dilution Geoid DGPS Time and ID Geoid Units GNSS fix Number of satellites Altitude units Time reference					

## 8. Power options

8.1 Alkaline battery options:	2 × D-Cell (MN1300 / LR20) alkaline batteries (standard)	
8.2 Rechargeable battery options:	Custom Lithium-Ion (Li-Ion) battery pack 2 × D-Cell (MN1300 / LR20) Nickel Metal Hydride (NiMH) batteries	
8.3 Battery run-time (continuous) <sup>3</sup> :	Li-Ion pack:	35 hours
	2 × Alkaline D-Cells	13 hours
8.4 Battery chemistry identification:	Lithium-Ion pack:	Automatic sensing
	NiMH / Alkaline:	Software switchable
8.5 Charging options (Li-Ion pack):	Mains charger:	100-250 Volts AC, 50/60 Hz
	Automotive charger:	12-24V DC
8.6 Charging time (Li-Ion pack):	3 hours to 80% from empty with maintenance trickle charging thereafter	

## 9. Physical Characteristics

9.1 Design:	Ergonomic, balanced and lightweight design for comfortable use during extended surveys
9.2 Construction:	Injection Molded ABS Plastic
9.3 Weight:	<b>With Lithium-Ion battery pack fitted:</b> Metric: 1.8kg Imperial: 4.0lb <b>With D-cell alkaline batteries fitted:</b> Metric: 1.9kg Imperial: 4.2lb
9.4 Ingress Protection rating:	IP65 Protected against dust ingress and jets of water <sup>4</sup> applied from any direction
9.5 Display type:	High contrast custom made monochrome LCD
9.6 Audio options:	Built-in waterproofed speaker 3.5mm headphone socket

● Available feature

9.7 Operating temperature <sup>5</sup> :	Metric: -20 to 50°C Imperial: 14 to 122°F
9.8 Storage temperature:	Metric: -20 to 70°C Imperial: 14 to 158°F
9.9 Unit dimensions:	Metric: 648mm x 286mm x 125mm Imperial: 25.5" x 11.3" x 4.9"
9.10 Shipping dimensions:	Metric: 700mm x 260mm x 330mm Imperial: 27.6" x 10.2" x 13"
9.11 Shipping weight (with batteries fitted):	Metric: 2.6kg Imperial: 5.7lb

## 10. RD Manager™ Supporting PC Software

10.1 Operating System Compatibility:	Microsoft® Windows® XP, 7, 8, 8.1, 32 and 64-bit versions
10.2 Locator system compatibility:	Radiodetection RD7100 and RD8100 Precision Locators RD7000+ and RD8000 Cable, Pipe and Marker Locators
10.3 Functions:	<ul style="list-style-type: none"> <li>▪ Locator configuration</li> <li>▪ eCert™ remote calibration certification</li> <li>▪ Factory calibration certificate retrieval</li> <li>▪ Usage-logging data collation and export</li> <li>▪ User account management</li> <li>▪ CALSafe™ maintenance schedule enforcement</li> <li>▪ Product registration for extended warranty</li> <li>▪ Locator software update</li> <li>▪ Contact Radiodetection</li> <li>▪ Book a service</li> </ul>
10.4 Data export formats:	.kml for Google® Maps .csv for database and spreadsheet applications .xls / .xlsx for Microsoft® Excel®
10.5 KML data export options:	Filter usage-logging and survey measurement points on Google® maps. Select data to be tagged. Customize icon type / color, label type / color, line type / color

## 11. Warranty and Maintenance

11.1 Manufacturer's warranty duration:	3 years standard, on registration
11.2 Recommended calibration and maintenance schedule:	Annual, or at the beginning / end of a lease period if earlier
11.3 eCert remote calibration:	<ul style="list-style-type: none"> <li>▪ Remote calibration certification using an internet connection to Radiodetection</li> <li>▪ Recommended schedule: annual, or at the beginning / end of a lease period</li> </ul>
11.4 CALSafe™:	<ul style="list-style-type: none"> <li>▪ Can be enabled to prevent the locator operating when beyond a defined calibration / maintenance schedule</li> <li>▪ Disabled by default</li> <li>▪ 30-day countdown to calibration due date</li> </ul>
11.5 Enhanced Self-Test:	On-unit Applies test signals to locate circuitry to confirm correct operation, as well as the typical tests for screen and DSP functions. Recommended schedule: weekly, or before each use.
11.6 Storage recommendation:	Store in a clean and dry environment. Ensure all terminals and connection sockets are clean, free of debris and corrosion and are undamaged
11.7 Cleaning:	Clean with a soft, moistened cloth. Do not use <ul style="list-style-type: none"> <li>▪ Abrasive materials or chemicals</li> <li>▪ High pressure jets of water</li> </ul> If using this equipment in foul water systems or other areas where biological hazards may be present, use an appropriate disinfectant.

## 12. Certification and Compliance

12.1 Standards:	
<i>Safety:</i>	EN 61010-1:2010
<i>EMC:</i>	EN 61326-1:2013 EN 300 330-2 (V1.5.1) EN 300 440-2 (V1.4.1) EN 301 489-3 (V1.6.1) EN 301 489-17 (V2.2.1)
<i>Environmental:</i>	EN 60529 1992 A2 2013 EN 60068-2-64:2008 Test Fh ESTI EN 300 019-2-2:1999 (per table 6) EN 60068-2-27:2009 (Test Ea) ESTI EN 300 019-2-2:1999 (per table 6)
12.2 European directives:	R&TTE Directive 1999/5/EC Low Voltage Directive: 2006/95/EC EMC Directive: 2004/108/EC Declaration of conformity is available from <a href="http://www.radiodetection.com">www.radiodetection.com</a>
12.3 Environmental:	WEEE compliant ROHS compliant
12.4 Manufacturing:	ISO 9001:2008

## 13. Compatible Accessories

Accessory	Part description	Part number
13.1 Lithium-Ion battery packs	Li-Ion rechargeable battery mains kit (Includes mains charger) Li-Ion rechargeable battery pack (no charger)	10/RX-MBATPACK-LION-K 10/RX-BATPACK-LION
13.2 Lithium-Ion battery chargers	Li-Ion automotive charger Li-Ion mains charger	10/RX-ACHARGER-LION 10/RX-MCHARGER-LION
13.3 Alkaline battery trays	2 × D Cell battery tray (MN1300 / LR20)	10/RX-2DCELL-TRAY
13.4 Transportation and storage accessories – <i>For combined locator and transmitter</i>	Soft Carry Bag Wheeled Flight Case Hard Case	10/LOCATORBAG 10/RD7K8KCASE 10/RD7K8KCASE-USA
13.5 Locator signal clamps – <i>For identification and location of utilities</i>	Metric: 50mm Locator Clamp Imperial: 2" Locator Clamp Metric: 100mm Locator Clamp Imperial: 2" Locator Clamp Metric: 130mm Locator Clamp Imperial: 5" Locator Clamp	10/RX-CLAMP-50 10/RX-CLAMP-2 10/RX-CLAMP-100 10/RX-CLAMP-4 10/RX-CLAMP-130 10/RX-CLAMP-5
13.6 Signal stethoscopes – <i>To locate and identify individual utilities e.g. within walls, congested areas or when cables/utilities are in close proximity to each other</i>	High Gain Stethoscope Large Stethoscope Small Stethoscope	10/RX-STETHOSCOPE-HG 10/RX-STETHOSCOPE-L 10/RX-STETHOSCOPE-S

Accessory	Part description						Part number
13.7 Sondes <i>Battery powered signal transmitters for tracing or locating non-conductive utilities</i>	<b>Diameter</b>		<b>Range</b>		<b>Freq (Hz)</b>		
	mm	In	m	Ft			
	S6 Microsonde	6	¼	2	6½	33k	10/SONDE-MICRO-33
	S9 Minisonde	9	3/8	4	13	33k	10/SONDE-MINI-33
	S13 Super Small Sonde	13	½	2	6½	33k	10/SONDE-S13-33
	S18 Small Sonde	18	¾	4	14	33k	10/SONDE-S18A-33
	Standard C-Sonde	39	1½	5	16½	33k	10/SONDE-STD-33
						8	10/SONDE-STD-8
						512	10/SONDE-STD-512
	Slim Sonde	22	7/8	3.5	11½	33k	10/SONDE-SLIM-33
Sewer Sonde	64	2½	8	26	33k	10/SONDE-SEWER-33	
Super Sonde	64	2½	15	50	33k	10/SONDE-SUPER-33	
Flexi Sonde	23	7/8	6	20	512	10/SONDE-BENDI-512	
13.8 Submersible antennas:	640 / 512Hz Submersible DD Antenna 8kHz Submersible DD Antenna						10/RX-SUBANTENNA-640 10/RX-SUBANTENNA-8K
13.9 FlexiTrace™ <i>– Use with a transmitter to trace small diameter pipes</i>	FlexiTrace 50m / 165' FlexiTrace 80m / 260'						10/TRACE50-GB 10/TRACE80-GB
13.10 Flexrods <i>– Fibreglass rod used for propelling Radiodetection sondes through pipes to trace the path and locate blockages</i>	<b>Length</b>		<b>Diameter</b>				
	m	Ft	mm	In			
	50	160	4.5	3/16	10/FLEXRODF50-4.5		
	80	260	4.5	3/16	10/FLEXRODF80-4.5		
	50	160	7	¼	10/FLEXRODF50-7		
	100	320	7	¼	10/FLEXRODF100-7		
	150	485	7	¼	10/FLEXRODF150-7		
	60	195	9	3/8	10/FLEXRODF60-9		
	120	390	9	3/8	10/FLEXRODF120-9		
13.11 A-Frame – <i>Used for locating sheath faults on cables and coating defects on pipelines</i>	A-Frame (includes A-Frame Lead) A-Frame Bag						10/RX-AFRAME 10/RX-AFRAME-BAG
13.12 Headphones	Recommended for use in noisy environments						10/RX-HEADPHONES
13.13 Warning Triangle	Three sided folding warning sign						10/WARNING-TRIANGLE
13.14 Calibration Certificates	Locator Calibration Certificate, per unit (request with initial locator order)						97/RX-CALCERT
	eCert™ Calibration Credit						10/RX-ECERT

All specifications are measured in test conditions, at 21°C / 70°F, and fitted with 2 × good quality alkaline batteries unless otherwise noted.

1 Based on volumetric testing at a known fixed depth. True depth accuracy depends on factors such as ground composition, utility characteristics and the locate frequency / signal strength employed. Always follow local safe digging guidelines.

2 The RD7100 will locate to greater depths in the right conditions, but depth accuracy will be compromised. Depth measurement will not be displayed beyond these depths.

3 To provide repeatable measurements, run-time is measured with GPS functions switched to 'off'.

4 Water projected by a nozzle at a pressure of 30kPa / 0.3 bar / 4.4 psi in accordance with BS EN 60529 1992 A2 2013

5 At very low temperatures, battery life will be degraded and measurement precision may be reduced.

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