

# Precision marker locator range

RADIODETECTION'S RANGE OF PRECISION PIPE, CABLE AND RF MARKER LOCATORS



## ERGONOMIC DESIGN

Light weight (5lbs/ 2.3kg), with high contrast LCD display providing clear information in any light.



## EXTENDED WARRANTY

Warranty can be extended to a total of 3 years by registering the equipment. Registration is free and provides access to software upgrades and other online features.

## DYNAMIC OVERLOAD PROTECTION

Automatically filters out interference, allowing use in electrically noisy environments.

## SURVEYCERT™

Share locate data with PC or PDA applications for reporting, audit and analysis.

# RD Marker Locators – fast, accurate and reliable

Radiodetection's new range of precision locators builds on the high-performance and ergonomics of the RD7000®+ and RD8000® platforms and is aimed at locate professionals and utility companies who need to detect utility RF markers (also known as EMS or Omni-marker) alongside buried infrastructure.

Featuring TruDepth™, Radiodetection's unique automatic depth measurement system, and combined utility and marker locating mode, the marker locator range delivers faster and more accurate surveys.

Interfacing to maps and GIS systems is simpler thanks to internal GPS capabilities and convenient Bluetooth® and USB connectivity. The built-in GPS option, allows to conveniently add positional data to survey measurements without the need to carry additional equipment. All locators feature Bluetooth to allow automatic measurements transfer to external device. RD8000 models offer easy retrieval of saved measurements via USB and export into common file formats such as KML for Google Earth.

Monitoring usage, improving best practice and providing proof of work is delivered by the automatic data logging on selected models. Every second key locator parameters are saved into the unit's non removable internal memory for later retrieval and analysis using the convenient and reliable USB connection and RD Manager™, the PC companion of the marker locator range. GPS models will also add the benefit of proving survey locations.

### Main Benefits:

- Detect all commonly used RF utilities markers with automatic depth estimation for faster and accurate surveys
- Combined mode to scan simultaneously for cables, pipes and RF markers reducing surveying time
- Simultaneous depth and current readings, enabling faster surveys (RD8000 models)
- Bluetooth connectivity as standard to interface to external devices and GIS systems
- Integrated GPS option provides an easy interface to mapping databases and survey validation (RD8000 models)



- High contrast screen and weatherproof (IP54) construction for operation in almost any environment
- Light weight (less than 5lbs / 2.3kg including batteries) and ergonomic design allow prolonged usage
- Screen and operations common to Radiodetection's Precision Locators minimizing changes in working practice and re-training needs
- Compatibility with existing RD7000+ and RD8000 accessories and transmitters† simplifies introduction
- Integral logging system records significant locate parameters every second (including positional data for GPS models) storing up to 1 year of typical usage data
- USB connectivity to quickly retrieve internal logs or to perform setup, validate or upgrade operations using the RD Manager™ PC software
- Built-in Li-Ion rechargeable batteries as standard, for extended battery life and cost effective operation

†Some PTL frequencies requires the use of a Tx-10B transmitter.

## REMOTE CALIBRATION

Confirm correct operation and calibration in the field.



## COMPASS

Visually follow the target cable or pipe orientation with the dynamic line indicator.



## 8K FAULT FINDING

Locate cable sheath faults to within 4" (10cm) using Radiodetection's A-Frame accessory.

TECHNICAL SPECIFICATIONS FOR LOCATOR AND TRANSMITTER	
Features are model dependent	
Sensitivity	5µA at 1 meter (33kHz)
Dynamic range	140dB rms/√Hz
Selectivity	120dB/Hz
Maximum depth <sup>(1)</sup>	Line: 20' / 6m Sonde: 50' / 15m RF Markers: Near Surface: 2' / 60cm Ball Marker: 4.9' / 1.5m Mid-Range: 5.9' / 1.8m Full Range: 7.9' / 2.4m
Depth accuracy <sup>(2)</sup>	Line: ± 5% tolerance 4" / 0.1m to 10' / 3m Sonde: ± 5% tolerance 4" / 0.1m to 23' / 7m RF Markers: ± 15% ± 2" / 5cm up to the maximum depth
Locate accuracy	± 5% of depth
Horizontal GPS Position Accuracy	3m CEP (Circular Error Probable)
CD Fault-Finding (CDDF)	Up to 13 CD pairs, 220Hz to 1248Hz
Fault-Finding (FF)	Diagnose cable sheath faults from short circuit to 2MΩ using the A-frame
Dynamic overload protection	30dB (automatic)
Batteries	Li-Ion battery pack or 3 x D-cells (LR20)
Battery Life (continuous usage) <sup>(3)</sup>	Li-Ion or Alkaline up to 25 hours
Warranty	12 Month standard, 36 Months upon registration
Compliance	FCC, RSS 310 RoHS, WEEE
Approvals	CE, Bluetooth
Weight	4.6lbs / 2.1kg (including Li-Ion battery pack)
Dimension (H x D x W)	25.5" x 11.3" x 7" / 648 x 286 x 177mm
Construction	Injection Molded ABS Plastic
Ingress Protection	IP54
Operating Temperature	14 to 122°F / -10 to 50°C

<sup>(1)</sup> In Good Conditions. <sup>(2)</sup> RD7000+ and RD8000 will locate to greater depths but accuracy may be reduced.

<sup>(3)</sup> At 70°F / 21°C with good quality batteries, transmitter output set to 1W.

## Marker Locator Range

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PRECISION PIPE, CABLE AND  
RF MARKER LOCATORS**



## 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. Radiodetection is a unit of SPX (NYSE: SPW), a global Fortune 500 multi-industry manufacturing company. With headquarters in Charlotte, N.C., SPX has 14,000 employees in more than 35 countries worldwide. Visit [www.spx.com](http://www.spx.com).

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