

RD7000+™

Utility cable and
pipe locator



Radiodetection®
AN SPX COMPANY



SideStepauto™: allows the transmitter to calculate the optimum frequency based on ground impedance. The transmitter uses this information to optimize the active frequency. SideStepauto™ helps to improve locate accuracy and extends battery life.

All Tx models are compatible with the complete range of RD7000, RD7000+ and RD8000 frequencies in both inductive and direct connect modes. The transmitters are powered either by 8 standard D-cell batteries (alkaline or rechargeable NiMH) or by the Lithium-Ion rechargeable battery pack (available separately). Alternatively, the Tx range can be powered from a 12V vehicle source using a Radiodetection approved isolation transformer.



Fully Digital Platform

Patented Triband $\Delta\Sigma$ design provides unparalleled flexibility of power, frequency and control.

Range of Transmitters

1 Watt, 3 Watt and 10 Watt power ratings and features suitable for a broad range of applications.

High Voltage Output

90V output option to increase signal definition on high resistance lines.

High Power Output

For locating deep and long distance cables and pipes.

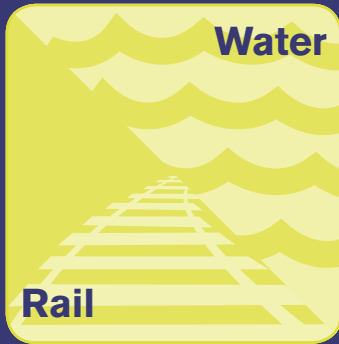
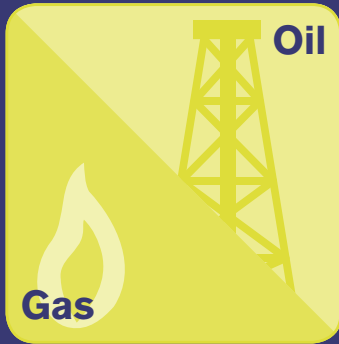
Transmitter features

- Three power versions: 1 Watt, 3 Watt and 10 Watt
- 8kHz Fault Find – locates faults from short circuit up to 2M Ω
- Current Direction Fault Find– for long distance fault finding
- 5 Current Direction (CD) paired low frequencies
- Current delivered at 30V, or 90V high voltage mode for high impedance operation
- 256Hz to 200kHz active frequency range
- Selectable modes support specific RD7000, RD7000+ and RD8000 locator model frequency ranges
- 8 inductive frequencies
- SideStepauto™
- Transient overvoltage protection
- Multimeter function
- 8 D-cell battery cassette/rechargeable Lithium-ion battery pack option
- Plug and play accessories (compatible with RD4000 transmitter range accessories)
- External 12V DC operation (using Radiodetection isolation transformer)
- Click-touch splash-proof sealed keypad
- High contrast LCD
- Ground stake, direct connect leads and earth reel supplied
- Accessory tray

Standard features:

Sales Part No.	Power (Watt)	CD	8KFF	Induction frequencies	Induction field strength	Direct connect frequencies	Accessory storage base	NiMH & Alkaline standard batteries	External 12V supply	Multi-meter	Transient overvoltage protection	LCD display
10/RDXT1	1			8	0.7	15	✓	✓	✓	✓	✓	✓
10/RDXT3	3		✓	8	0.8	15	✓	✓	✓	✓	✓	✓
10/RDXT10	10	✓	✓	8	1	15	✓	✓	✓	✓	✓	✓

An RD7000+
to address
any utility...



Accessories:



Technical Specifications for locator and transmitter	
Sensitivity	6E ⁻¹⁵ Tesla, 5µA at 1 meter (33kHz)
Dynamic range	140dB rms /√ ¹ Hz
Selectivity	120dB/Hz
Depth accuracy	Line: ± 5% tolerance from 0.1m (4") to 3m (10ft) Sonde: ± 5% tolerance from 0.1m (4") to 7m (23ft)
Maximum depth*	Line 6m (20ft), Sonde 15m (50ft)
Fault Finding (FF)	Diagnose cable sheath faults from Short Circuit to 2MΩ using the A-frame
Batteries	Locator: 2 x D-cells (LR20) or rechargeable battery pack [†] Transmitter: 8 x D-cells (LR20) or rechargeable battery pack [†]
Warranty	36 Months upon registration
Dynamic Overload Protection	30dB (automatic)
Compliance	FCC, RSS 310 RoHS, WEEE, CE
Weight	Transmitter: 2.84kg (6lbs) (including batteries) 4.2kg (9lbs) (including supplied accessories)
	Locator: 1.87kg (4lbs) (including batteries)
Environmental protection:	IP54
Operating temperature range:	-20°C to +50°C (4°F to 122°F)

**RD7000+ will locate to a depth of over 15m (50ft) but accuracy may be reduced. [†]Available separately.



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Patents, Trademarks and Notices.

The following patents are owned by Radiodetection;

Patents:

US6,642,796 US6,268,731 US7,184,951 US6,777,923 US6,977,508 US6,968,296 US7,235,980 US7,403,012 US7,339,379
US7,304,480 EP2096466 EP2096464 EP2098890

USP D610,621 CN Des. Pat. No.200830141207.6 CN Des. Pat. No.200830141208.0.

The following trademarks are owned by Radiodetection; iLOC™, TruDepth™, SideStep™, SideStepauto™, SurveyCERT™, RD4000™, RD7000™, RD7000+, RD8000™, Centros™.

The Design of the RD7000, RD7000+, RD8000 and transmitters has been registered. The Design of the 4 chevrons has been registered and trademarked.

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