

RD5000TM WL



Easy to use, single frequency
pipe and cable locator



Radiodetection[®]
AN SPX COMPANY



Introducing the RD5000^{WL}

– an easy to use, single frequency pipe and cable locator

Tracing buried pipes and cables, whether to locate faults or to avoid utilities during excavation work, can present major difficulties. This can be made even worse in cases where a pipe has rubber seals, insulators or even gaps between sections. These problems, if not overcome, can result in costly repairs, delays and in some instances personal injury.

The RD5000^{WL} kit has been designed to address these issues. Ease of use is at the heart of the product, coupled with the accuracy, repeatability and reliability you have come to expect from Radiodetection's locator products.

The RD5000^{WL}'s single high active frequency is very well suited to disjointed pipes and cables, and plastic pipes with tracer wire. The signal can be applied either by direct connection or by induction, which is also an excellent way of lighting up all nearby conductors for blind locates.

Standard features of the RD5000^{WL} include:

Easy to use:

- **Single button operation** – Both locator and transmitter operate from a single button, making them amongst the easiest to use products available.
- **Single frequency** – The RD5000^{WL} operates at 83kHz, a frequency that travels well along pipes such as gas and water pipes, that may have gaps between sections.

Two modes:

- **Guidance Mode** – The target position indicator, proportional arrows and audio signals guide the user towards the target pipe or cable. Compass indicates the orientation of the target and the Signal Strength given out by the target is also displayed.
- **Signal Strength Mode** – The numerical scale, from 0 to 999, indicates the strength of the signal from the target. The target position indicator and audio are turned off, leaving an easy to use, uncluttered screen.

Compass:

Provides the user with a visual indication of the target pipe or cable's orientation, simplifying the task of following the correct target line.

TruDepth™:

Ensures that depth is indicated when the locator is oriented correctly above the target, to assist in positioning the locator properly for the most accurate reading.

Current:

The current flowing in the line is displayed, when the locator is correctly positioned above the target, helping to ensure that the operator can follow the target line.

Guidance Mode

Arrows guide the user towards the target. The shorter the tail, the closer you are to the target.

Ease of use

Single button operation allows you to concentrate on the job not the tools you are using.

Compass

Follow the orientation of the target pipe or cable with the on-screen indicator.

Excellent induction performance

The RD5000^{WL} has been optimised to induce easy-to-follow signals on buried pipes and cables.

Dynamic Overload Protection

The latest, signal processing techniques give the RD5000WL the ability to reject unwanted signals that can swamp other locators' detection circuitry.

ClearTRACK™

The powerful digital signal processing engine provides automatic rejection of adjacent bleedover signals, leading to more accurate location in increasingly congested underground utility networks.

Centros™ Manager:

Update the software and verify the calibration of your RD5000WL locator using eCAL™.

Audio tones:

A continuous tone to the left of the target and an intermittent tone to the right, when in Guidance Mode mode, helps guide the user towards the target.

Depth:

Depth is displayed when the locator is correctly positioned above the target. The RD5000WL is available in Imperial or Metric versions.

Backlit display as standard:

Auto switching backlight minimizes the effect of poor lighting conditions.

Rechargeable batteries:

The rechargeable batteries for the both RD5000WL locator and transmitter offer a full working day's operation from one complete charge.

High power output:

Automatic impedance matching allows the RD5000WLT transmitter to deliver a powerful 83kHz signal via direct-connection across a wide range of line impedance. Induction strength equals that of the powerful Radiodetection Tx-10.

Centros enabled:

Radiodetection's know how and experience is encapsulated within Centros™. More than 50 software and hardware patents, a blend of new and innovative algorithms with established software, together with a high-performance processor core combine to improve the accuracy and repeatability of measurements and responsiveness in the field.



eCAL™:

A novel Radiodetection technique that allows the operator to validate the original factory calibration of the RD5000WL. This gives the operator confidence that the locator continues to meet its factory calibration. eCAL™ can issue and print a validation certificate without needing to return the RD5000WL to a service center.

Extended warranty:

Extend the normal 1 year warranty to 3 years, by registering on-line within 3 months of purchase, for no additional cost. Registered products also receive free product software and feature upgrades through Centros Manager as they are released.

Guidance mode

The length of the arrows is proportional to the distance from the target as the RD5000WL guides the user towards the pipe or cable of interest. The target position indicator also indicates the direction to the target.

Left/Right arrows



Current

Target position indicator

Compass

Signal Strength



Depth

Signal Strength mode

Numerical indication, from 0 to 999, of the strength of the field given out by the target, helping the user to pinpoint its position. Compass, depth and current are also shown in this mode.

High contrast LCD with auto-backlight

Single button operation:

Long press to turn on and off
Short press to change modes

Splash-proof keypad

Rechargeable battery pack
as standard

Tray for alkaline batteries
(D-cells) also available

Ergonomic robust
ABS case

Accessory
connections

Headphone
connection

High visibility
reflective
safety arrows

Internal Li-ion batteries

4xD-Cell (LR-20)
battery compartment

Induction mode alignment arrow:

Line arrow up with the target
pipe or cable to achieve
the best coupling

On/Off switch

Multi use socket:

Direct connection output
Accessory output
Li-ion battery charging input

Battery level
warning LEDs

LEDs flash when
batteries in use are low



Direct connection

The most effective method for connecting to a valve, meter, junction box or other access point, as long as access is possible.



Signal clamping (Optional)

Applies a transmitter signal safely to a pipe or live cable up to 100mm diameter without interrupting the supply.



Induction

A convenient and quick way of applying the transmitter signal to pipe or cable, where direct connection or signal clamping is not possible.

RD5000WL Locator Technical Specification

Depth accuracy [□]	±5% ±0.01m (0.5") from 0.1m (4") to 3m (10ft)
Frequency of sensitivity	83kHz (83,077Hz ±5Hz)
Maximum depth	6m* (20ft)
Batteries	Rechargeable battery pack (standard) or 2xD-Cells (LR20) (optional, battery tray required)
Battery life (continuous usage)	Rechargeable: >15 hours, 0°C to +50°C (32°F to 122°F)
Warranty	12 months 36 months [†]
Dynamic Overload Protection	30dB (automatic)
Compliance	FCC, RSS 310 RoHS, WEEE, CE
Weight	1.87kg (4lbs) (including rechargeable batteries)
Environment	IP54
Operating temperature range	-20°C to +50°C (4°F to 122°F)
Units Displayed	Inches (RD5000WLI) Meters (RD5000WLM)

[□]In good conditions.

*RD5000 will locate to a depth of over 15m (50ft) but accuracy may be reduced.

[†]Extended warranty available upon registration at:

www.radiodetection.com/extendedwarranty within 3 months of purchase.

RD5000WLT Transmitter Technical Specification

Frequency	83kHz (83,077Hz ±5Hz)
Nominal power output	1W in Direct Connect mode
Batteries	Internal rechargeable battery pack 4xD-Cells (LR-20)
Battery life (continuous usage)	Rechargeable: >20hours, 0°C to +50°C (32°F to 122°F)
Warranty	12 months 36 months [†]
Compliance	FCC, Canada 310 RoHS, WEEE, CE
Weight	1.6kg (3.5lbs) (including rechargeable batteries)
Environment	IP54
Operating temperature range	-20°C to +50°C (4°F to 122°F)

[†]Extended warranty available upon registration, within 3 months of purchase, at:

www.radiodetection.com/extendedwarranty

Patents, Trademarks and Notices.

The following patents are owned by Radiodetection;

Patents:

US 6,642,796 US 6,268,731 US 6,968,296 US 7,403,012 EP2096464 EP2096466 EP2098890

The following are trademarks of Radiodetection;

TruDepth™, RD5000™, Centros™, ClearTRACK™.

The Design of the RD5000 has been registered. The Design of the 4 chevrons has been registered and trademarked.

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

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Depth

Displays depth to assist with following the correct target and with safe excavations.

Single frequency

83kHz, optimized for water and gas pipes with poor electrical connections between sections.

Current in mA

Current is displayed, to aid the user to track the correct target pipe or cable.

TruDepth™

Ensures the locator is positioned correctly above the target for the most accurate depth and current readings.





**World
leaders**

Radiodetection is a proud member of the SPX group of companies, which provide technical products and service solutions worldwide.

Radiodetection and its associated companies specialize in the design and manufacture of products for the location and maintenance of underground pipes and cables. Our aim is to be viewed as the supplier of choice of 'high performance' quality equipment using advanced product technologies. We are also committed to both design innovation and customer support.



**Technical
support**

Radiodetection equipment users have easy access to technical support. A call to your regional representative, or the Radiodetection head office, will put you in contact with our team of field-experienced technical experts.



**Servicing
and repair**

Radiodetection has a team of factory-trained service technicians and dedicated service facilities. Turnaround is fast, and costs are very competitive.



Training

Product training for your operators and training personnel is available on your site, or at Radiodetection's headquarters. Training is with qualified instructors and each trainee receives a certificate to confirm they have received the training.

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