

RADIODETECTION®

PROMAT

SPX®

**Damage prevention and operational efficiency  
are the biggest challenges facing our customers**



Solve these  
problems with  
the new **RD8200**.  
Designed with the  
operator in mind,  
it is our most  
advanced and  
capable range of  
precision locators.

**RD8200®**



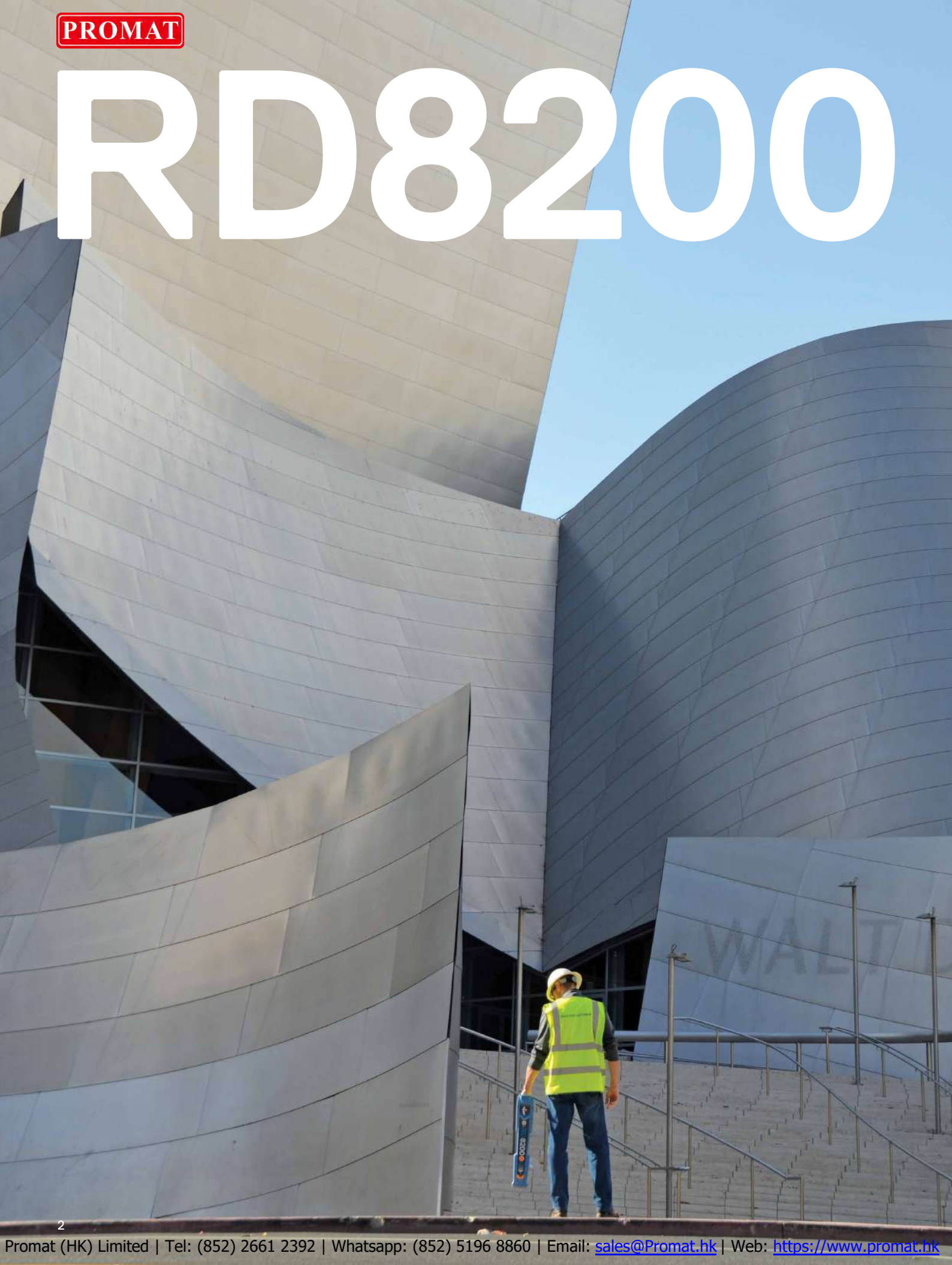
**Know what's below.  
Call before you dig.**



**SOLUTIONS FOR A CONNECTED WORLD**



# RD8200





# The professional choice in damage prevention

## Speed, accuracy and reliable performance

- Easy to setup and use
- Sun light readable display, high performance audio system and vibration alerts for noisy environments
- Sensitive and accurate signal processing for reliable results

## Adaptable in challenging environments

- Ideal for congested underground infrastructures
- Rejects strong interfering signals
- Identify target power cable in the presence of many

## Technology driven best on-site practise

- Encourage correct locator handling for improved detection
- Monitor field operations through the automatic usage logging feature
- Proof of work to differentiate your operations from your competition and add value to your clients

## Ergonomic design, premium quality

- Rugged yet light weight and ergonomic
- Designed and built to the highest standards in Great Britain
- Self Test for confidence and trust in your locator measurements





# Speed, accuracy and reliable performance

Easy to deploy and use – provides fast, precise and repeatable measurements

## Industrial grade display, for outdoor usage

RD8200 locators and transmitters use transfective low power LCD technology that uses ambient light to improve screen readability in direct sun light and extend battery life.



## TruDepth™ and current readout, for extra assurance

Radiodetection's TruDepth displays precise depth and current measurements, only when the RD8200 is correctly oriented above the target. Measurement consistency gives high confidence that the correct line is being followed.

## High performance audio and vibration alerts, for noisy environments

The RD8200 waterproof speaker housing has been tuned to provide optimum resonance for your choice of high or low frequency tones.

5 power output audio levels and vibration alerts, assist technicians working in challenging situations.



## Peak+ Mode, for speed and accuracy

Peak+ adds the benefits of Guidance or Null locating to the accuracy of Peak mode.

- Guidance gets you to the Peak position faster.
- Null lets you check for the distortion caused by other utilities, spurs or interference.

## Passive Avoidance, for a quick perimeter scan

Rapidly check an area before excavation using simultaneous detection of the Passive Power and Radio signals carried on underground cables or pipes.

## Class leading sensitivity, for difficult locates

State of the art Digital Signal Processing technology lets technicians detect and react to the weak signals associated with difficult to locate or deep utilities.

## iLOC, for efficient operations

Long range wireless link between the RD8200 locator and a compatible transmitter allows you to control the locate signal's power and frequency from up to 1400'/450m away.



# Adaptable in challenging environments

The RD8200 range of locators and transmitters simplify the task of distinguishing and tracing utilities in congested networks, near substations or high voltage lines

## Current Direction, track the right line

Identify your target amongst a number of parallel utilities by applying a specialized CD signal from a Tx-10 transmitter. CD arrows displayed on the locator confirm you are tracing your target line.

## Power Filters™, works where other locators wont

When a transmitter can't be connected, tracing individual power lines through dense networks can be a real challenge. Conflicting or powerful signals confuse or combine to create a wash of signal.

A single key press enables the use of the harmonic properties of power signals to establish if a signal comes from one source, or from multiple cables which you can then trace and mark.

## Dynamic Overload Protection, rejects unwanted interference

Automatically filters out interference, enabling use in electrically noisy environments such as near substations or overhead power lines.



## 4 kHz locate & CD, optimized for telecoms and street lighting

The 4 kHz locate frequency allows high impedance lines to be traced over longer distances. Combine 4 kHz with CD to improve trace accuracy in areas of dense infrastructure.

## SideStep™, interference evasion

Shifts the locate frequency to survey in areas prone to interference or where more than one operator is working.



# Technology driven best on-site practise

RD8200 locators offer many features designed to drive correct usage, reduce utility damage, improve safety and enhance your reputation

## Swing Warning System, drives correct usage

Locators must be kept perpendicular to the ground for best accuracy. RD8200 locators have a built-in gyroscopic measurement system which alerts the user of excessive swing, driving correct usage.

## Usage-logging with GPS positioning, understand how your technicians operate

The RD8200G locator automatically stores all locate parameters providing a comprehensive picture of field operations.

Supervisors or health and safety personnel can analyse the data to assess usage patterns in order to ensure adherence to best-practice and to identify training needs before poor work habits develop.

The information can also be shared with partners or clients to evidence task completion or compliance to service requirements.

Usage data can be exported in multiple file formats – for example KML for Google Maps to confirm where and when work was performed.



## StrikeAlert™, minimizes risk of accidents

Visual, vibration and audio warnings, both in active and passive locating modes, of shallowed utility lines.

## Vibration feedback, reduces the chance of missed warnings

The RD8200 locator handle vibrates when alerts activate, leaving the operator to concentrate on the job at hand.





# Ergonomic design, premium quality

The RD8200 is a light yet rugged tool ready to operate in most difficult conditions, day after day. Radiodetection help is always at hand with our online support website.

## Made in the UK – No compromise on quality

The RD8200 locator and transmitters are designed and manufactured in the Great Britain and are subjected to a rigorous test regime before leaving our factory.

## Locate with confidence – Self-test

Confirm the integrity of the measurement system on-site. Self-test applies signals to the locating circuitry as well as checking display and power functions.

## Use it all day, day after day – light weight and ergonomic

The RD8200 has been design around the operator needs. The iconic industrial design provides an exceptionally well balanced, and light weight tool which is comfortable for extended periods of use.

## Sun or rain, hot or cold – works in harsh conditions

IP65 rating and wide temperature usage (-4°F to 122°F/-20°C to 50°C) allow the RD8200 locators and transmitters to work in difficult weather conditions.



## Knowledge base and Technical support, when you need it

RD8200 offers a comprehensive knowledge base library which is available to consult online from a mobile device or pc.

Find an answer to or ask technical questions 24/7 by using Radiodetection's support portal.



## Extended warranty and Local Support

The RD8200 is backed with an industry leading 3 year warranty on registration. Our global sales and service network delivers comprehensive localized technical support and training tailored to your needs.

## Remote calibration without downtime eCert™

Verify and certify the calibration of your locator over the internet using the RD Manager™ PC software package without returning the unit to a service center.

## Schedule your calibration – CALSafe™

Choose to automatically enforce maintenance or lease schedules by providing a 30 day countdown before the calibration certificate expires.



# Advanced features and operations, ready for a connected world

The RD8200 system is a feature rich locating solution, designed to extend and future proof your field capabilities

## **RDMap™+, for easy and cm accurate utility mapping**

Add positional data to your survey measurements with the integrated GNSS option, and use RD MAP+ to create in real time\*, detailed maps of buried utilities.

Combine with a high accuracy external positioning device, such as the Trimble Catalyst RTK solution, to create high accuracy utility maps\*\*.

\*Requires data connectivity and Google Maps.

\*\*Trimble Catalyst and RTK correction subscription required for high accuracy.



## **Custom frequencies, for matching your RD8200 to a specific telecom network**

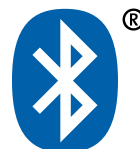
Confirm the integrity of the measurement system on-site. Self-test applies signals to the locating circuitry as well as checking display and power functions.

## **Use it all day, day after day – light weight and ergonomic**

Up to 5 additional frequencies can be programmed into your locator to match it to the signals found on your target networks.

## **Dual Bluetooth connectivity, ready for a connected world**

The RD8200 locator provides a dual Bluetooth system, which combines long range iLOC functionality and low power connectivity to deliver a system ready to connect to cloud based data solutions.



## **Fault Find mode, for pinpointing cable sheath damage**

Combine the RD8200 locator with an accessory A-frame to identify and locate insulation sheath faults to within 4" (10cm).

## **90V Transmitter output, for dry ground conditions and deep or long locates**

More locate signal on high impedance target lines.

## **Multimeter function, for optimum connection to your target utility**

Assess your connection to the utility using your transmitter: quickly measure line voltage, current and impedance. This ensure best performance of your RD8200 locating system.

## **RD Manager for PC, for easy management of your RD8200**

Set-up, calibrate and update your locator from a PC. Download usage logging and survey measurement data for analysis. Create customizable KML files.



**SOLUTIONS FOR A CONNECTED WORLD**



High contrast screen provides clarity even in bright sunlight

## Speaker and audio feedback

User facing speaker orientation, 5 levels of sound, choice of tone frequency. Designed to be heard in noisy environments

## Custom Frequencies

Program up to 5 extra frequencies to customize the RD8200 to signals found on your network

## Survey Measurements with Bluetooth® Connectivity

Store up to 1000 records and send wirelessly to a mobile device or PC using Bluetooth. Optional integrated GPS adds positional data without requiring an external device

## Locate over longer distances

90V signal output and automatic impedance matching

4 kHz frequency with Current Direction for locating and tracing higher impedance cables over longer distances



Base tray for accessories

## Vibrating handle

Provides vibration alerts, leaving the operators to concentrate on their tasks

Light weight and ergonomic design for comfortable use

High visibility reflective design helps protect operators and equipment



## Built for on-site use – IP65

Shock resistant, ingress protected casing protects against knocks, drops, water and dust



## Precision by design

A unique arrangement of five custom manufactured, precision ground antennas deliver locate accuracy and repeatability

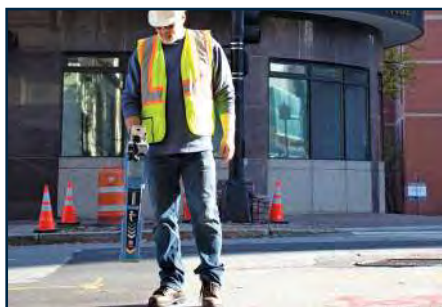
**3 YEAR WARRANTY ON REGISTRATION  
AND A GLOBAL SERVICE NETWORK  
PROVIDE PEACE OF MIND**

## Upgrade to get more from your locator system:



## Li-Ion battery pack

Lithium-Ion rechargeable battery options for both locator and transmitter provide extended runtime with reduced running costs.



## On-site monitoring

Integrated GPS and multi-rate automatic usage-logging allow managers to review locate history to ensure compliance with best practice.



## Swing Warning System

Alerts the operator of excessive side to side movements, driving correct RD8200 usage.



# Maximise your capabilities

Add accessories to optimize the RD8200 system to your specific needs

From locating telephone cables in a bundle to underwater power cables, Radiodetection's accessory range can extend the capabilities of your RD8200 locator and transmitters

Visit [www.radiodetection.com/accessories](http://www.radiodetection.com/accessories) for more information



## Ordering information

RD8200 locators:	RD8200	RD8200 G
Locate Frequencies	22	22
Sonde Frequencies	4	4
Passive Modes	5	5
On-board GPS		✓
Power Filters	✓	✓
Usage-Logging		✓
Survey Measurements	✓	✓
CALSafe™	■	■
4 kHz	4k+CD	4k+CD
Current Direction	✓	✓
Fault Find	✓	✓
Depth in Power	✓	✓
Passive Avoidance	✓	✓
iLOC	✓	✓
Dual Bluetooth connectivity	✓	✓
Lithium-Ion Battery	●	●
3 year warranty on registration*	✓	✓

Transmitters	Tx-5	Tx-10	Tx-10 B
Max. Output Power	5W	10W	10W
Active Frequencies	16	16	36
Induction frequencies	8	8	8
Current Direction Frequencies		6	14
iLOC remote control			✓
Fault Find	✓	✓	✓
Induction field strength	0.85	1	1
Eco Mode	■	■	■
Lithium-Ion Battery	●	●	●
3 year warranty on registration*	✓	✓	✓

\*Locators and transmitters only. Does not include battery packs and accessories.

Other features described are standard on the RD8200 Locators and Tx transmitters unless otherwise noted.

✓ Available, enabled by default ● Option ■ Available, disabled by default.



# RD8200® & RD7200® Comparison

## RD8200 improvements\*

FEATURES	BENEFITS
Six models narrowed down to two	Simple product choice
Louder volume options	Suitable for noisy environments
Choice of high tone or classic	Adaptable to personal preference
New speaker position	Easier to hear
Swing warning	Drive correct usage
Vibrating handle	Never miss a warning
Utility selection on 8200G	Improved utility map visualisation
QR codes	Instant on-site technical support
USB type-C	Industry standard connector for data transfer
New DC leads	More durable, longer lifetime
Improved GPS on 8200G	Better location verification
Dual mode Bluetooth® system	Supports future upgrades and iOS compatibility

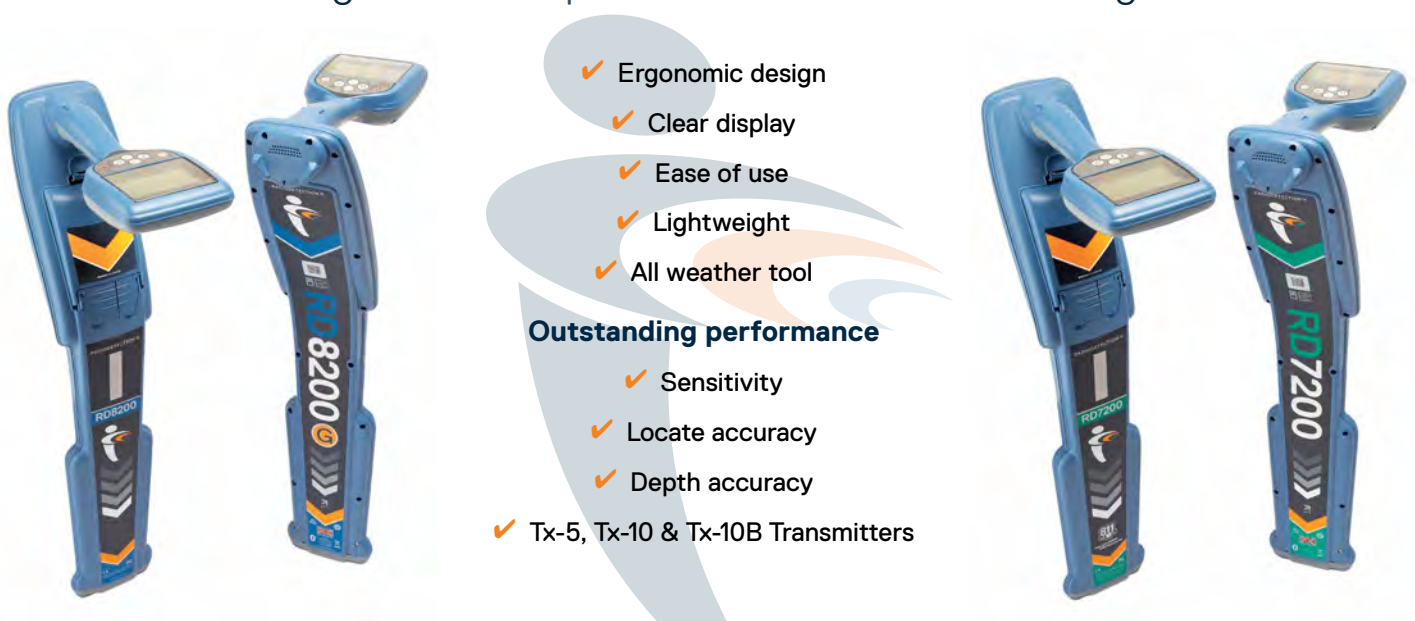
## RD7200 improvements\*

FEATURES	BENEFITS
Eight models narrowed down to one	Dedicated all-industry locator
Louder volume options	Suitable for noisy environments
Choice of high tone or classic	Adaptable to personal preference
New speaker position	Easier to hear
Swing warning	Drive correct usage
Vibrating handle	Never miss a warning
QR codes	Instant on-site technical support
USB type-C	Industry standard connector for data transfer
New DC leads	More durable, longer lifetime
Single mode Bluetooth® system	Future upgrades

\*Improvements from RD8100 models

\*Improvements from RD7100 models

## Strengths of the product that have not changed





## Model Comparison

	RD7200	RD8200	RD8200G
<b>ACTIVE MODES</b>			
Active Frequencies	8	21	21
Custom frequencies		5	5
Sonde frequencies	4	4	4
Peak, Null, Peak+, Guidance mode	✓	✓	✓
Broad Peak (single antenna mode)		✓	✓
Fault Find	✓	✓	✓
Current Direction™ (find target amongst multiple cables)		✓	✓
<b>PASSIVE MODES</b>			
Power, Radio, CPS	✓	✓	✓
Power Filters™ (Power cable discrimination)	✓	✓	✓
Depth in power mode	✓	✓	✓
CATV, Passive avoidance		✓	✓
<b>SURVEY DATA &amp; CONNECTIVITY</b>			
BLE (Bluetooth low energy)	✓	✓	✓
iLoc™ (Rx control of transmitter)		✓	✓
Survey measurements		✓	✓
Built-in GPS			✓
User Activity data logging			✓

For full details, please refer to the Technical specifications on [www.radiodetection.com](http://www.radiodetection.com)

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full list of our  
office locations



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