RADIODETECTION®

SPX TECHNOLOGIES

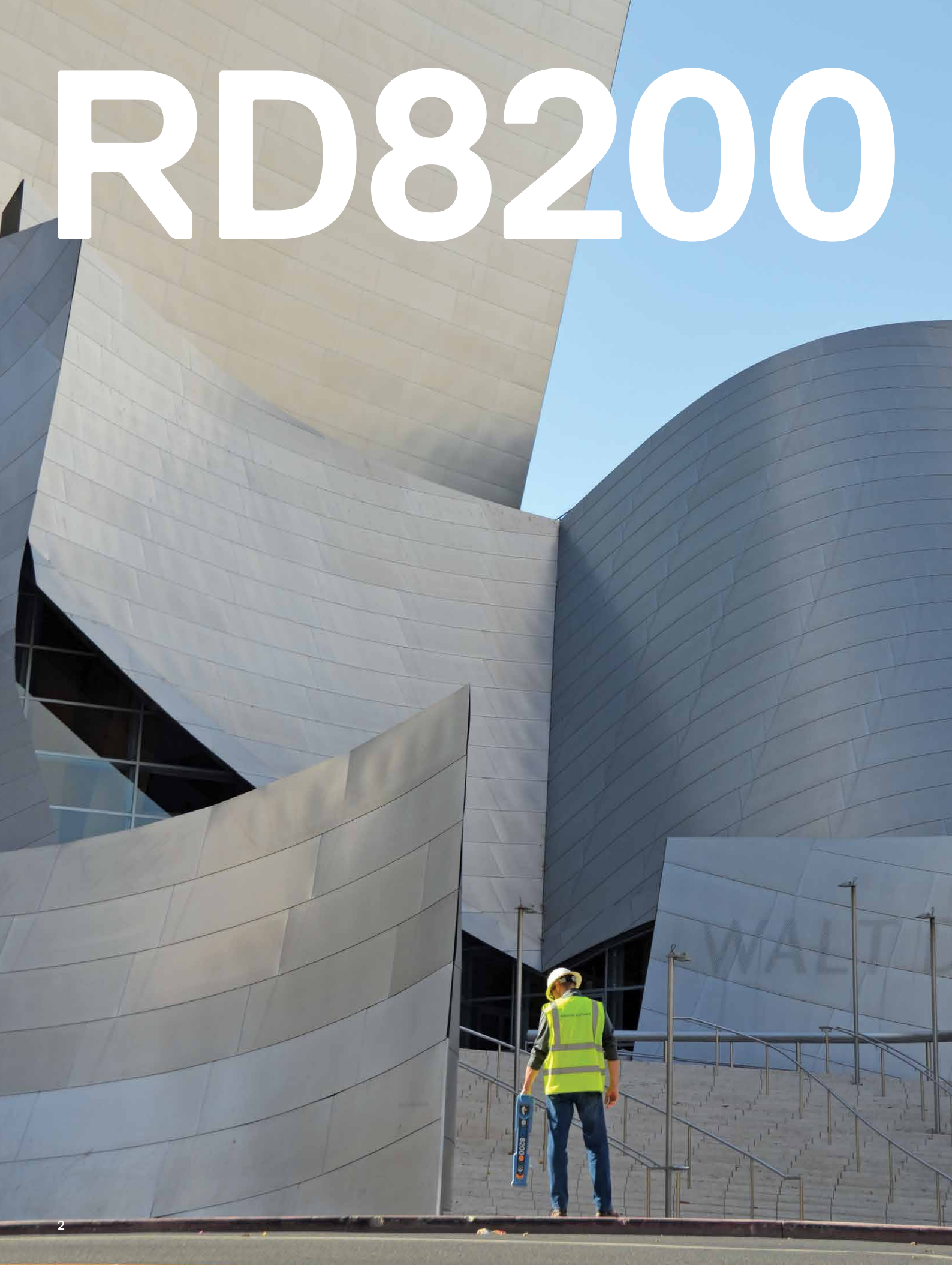
Strike reduction and operational efficiency are the biggest challenges facing our customers

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®

SOLUTIONS FOR A CONNECTED WORLD

RD8200



The **professional choice** in **strike reduction**

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 transflective 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

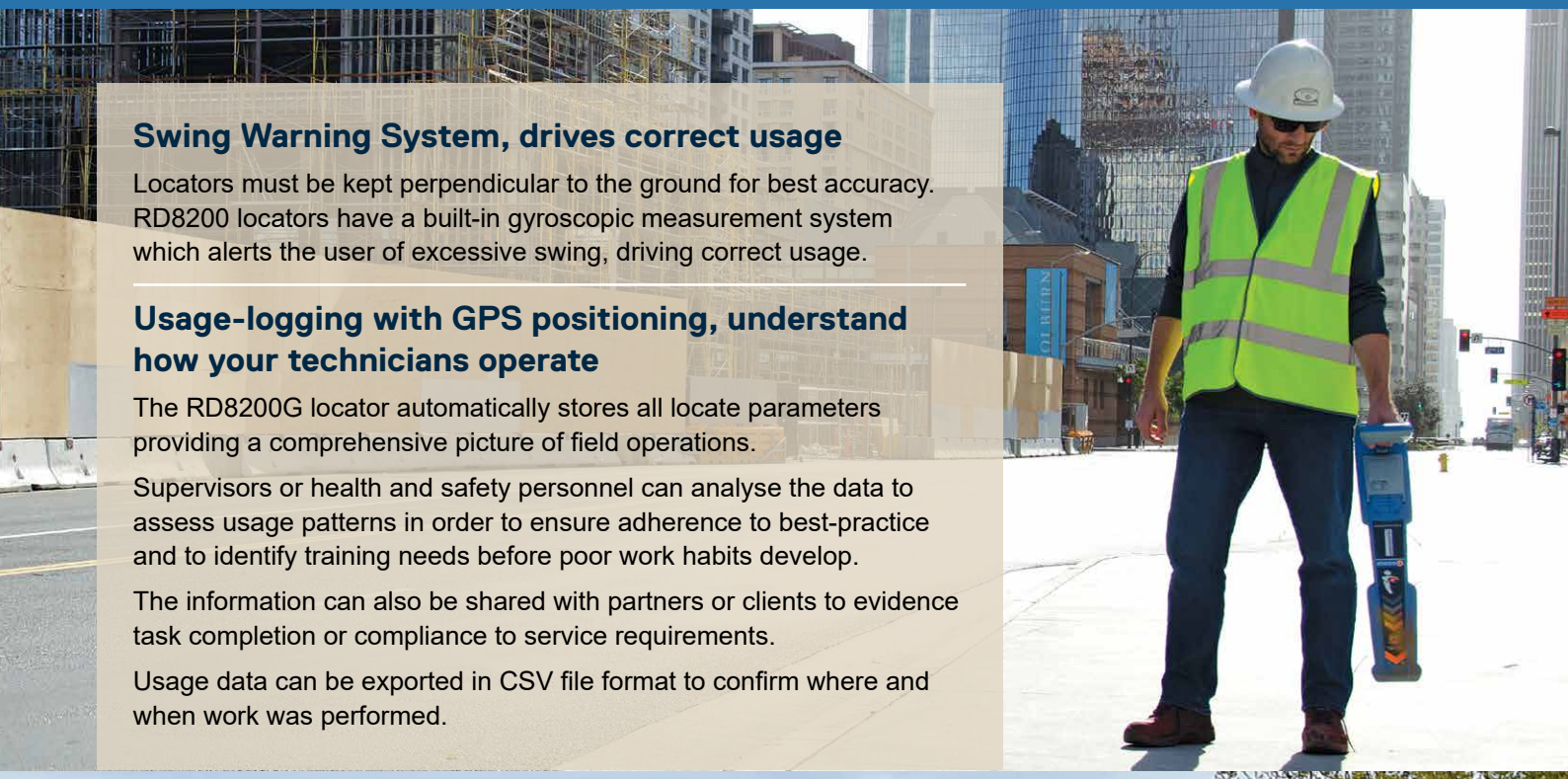
The 4 kHz locate frequency allows high impedance lines to be traced over longer distances. Combine 4 kHz with CD to improve trace accuracy in areas of dense infrastructure.

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 CSV file format to confirm where and when work was performed.

Strike*Alert*™, 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.* Download usage logging data for analysis.

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 Online for PC, for easy management of your RD8200

Set-up, calibrate and update your locator from a PC. Download usage logging data to confirm where and when work was performed.

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

Vibrating handle

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

Light weight and ergonomic design for comfortable use

Custom Frequencies

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

High visibility reflective design helps protect operators and equipment

Survey Measurements with Bluetooth® Connectivity

The locator can store up to 1000 records and pair to a mobile device using Bluetooth. To view survey measurements, the mobile app RD Map (Android only) is required

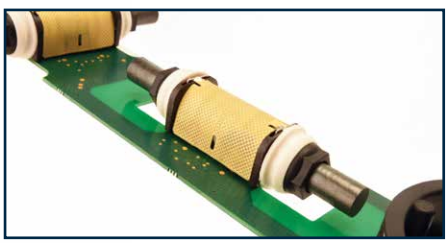
Built for on-site use – IP65

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

Locate over longer distances

90V signal output and automatic impedance matching

iLOC™



Precision by design

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

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

Base tray for accessories

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 extends the capabilities of your RD8200 locator and transmitters

Visit **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.

Download the full Product Specifications at **www.radiodetection.com/RD8200**

RD8200

Visit **www.radiodetection.com**

RADIODETECTION®

SPX TECHNOLOGIES

Our Mission

Provide best in class equipment and solutions, to prevent damage to critical infrastructure, manage assets and protect lives.

Our Vision

To be the world's leader in the management of critical infrastructure and utilities.

Our locations

USA

Raymond, ME
Kearneysville, WV

Canada

Vaughan, ON
Mississauga, ON

Europe

United Kingdom **HQ**
France
Germany
The Netherlands

Asia Pacific

India
China
Hong Kong
Indonesia
Australia

Visit: **www.radiodetection.com** Follow us on:

Scan to see a full list of our office locations

Copyright © 2023 Radiodetection Ltd. All rights reserved. Radiodetection and RD8200 are registered trademarks of Radiodetection in the United States and/or other countries. Trademarks and Notices. The following are trademarks of Radiodetection: RD8200, eCert, iLOC, TruDepth, SideStep, SideStep*auto*, RD Manager, RD Map, Peak+, SurveyCERT, Strike*Alert*, CALSafe, Current Direction, Power Filters. The design of the RD8200 locators and transmitters has been registered. The design of the 4 chevrons has been registered. The Bluetooth word, mark and logos are registered trademarks of Bluetooth SIG, Inc. and any use of such trademarks by Radiodetection is under license. Due to a policy of continued development, we reserve the right to alter or amend any published specification without notice. Photos are indicative and products received may not be identical to those shown. This document may not be copied, reproduced, transmitted, modified or used, in whole or in part, without the prior written consent of Radiodetection Ltd.

90/RD8200-BR-ENG/06

Cable Locators & Survey