RADIODETECTION®

SuperCAT®4+

Utility-specific range for finding CPS protected pipes, sondes, telecom and power cables



SPX®

SuperCAT4+ and T1 are easy to use, utility-specific locating tools with enhanced features for the challenges faced by particular industries. Detect more, reduce utility strikes and improve safety.





Each model has been designed to meet the needs of a specific industry challenge:

SuperCAT4+CPS – find oil and gas pipelines using rectified CPS signals.

SuperCAT4+S – use a range of sondes to find water and drain pipes, and telecom ducts.

SuperCAT4+ – Multi-frequency cable locator with transmitter options for high impedance telecom cables or low impedance power cables.



SuperCAT4+ and T1 transmitter range



High contrast display with auto-backlight

Bargraph 'tidemark' enables operators to quickly spot and zero-in on a buried conductor

Detachable loudspeaker for use in noisy environments

Fingertip control

Trigger switch ensures power off when not in use

Depth button

Mode selector switch

Sensitivity control





Accessible battery compartments

Locator and transmitter powered by the same off-the-shelf batteries. (Locator 2 x D-Cell, Transmitter 4 x D-Cell)

Protected investment

USB data port ensures product can benefit from future software upgrades

Portable, compact, and lightweight design



Accessible accessory socket

Simple frequency selection

Built for on-site use

Light weight high impact ABS casing provides protection to IP54 for all-weather operation

Replaceable wear boot protects against knocks and drops



Trace non-metallic utilities

Accurately trace non-metallic pipes or telecom ducts using sondes.



Connect more to find more

Choose from a wide range of accessories to ensure target utility can be distinguished easily.



Frequency selection

Distinguish target utilities with a range of industry specific frequencies.

Locate and protect underground assets

Safe excavation relies on the accurate locating of buried assets. Failure to accurately identify the presence of utilities may result in damage to underground pipes and cables which, in turn, can lead to utility outages, costly repairs and project delays. In some instances personal injuries can result.

Detect more, reduce utility strikes

Each model of the SuperCAT4+ and T1 range is designed to meet the challenges faced by a specific industry.

For oil and gas pipes using a Cathodic Protection System, the CPS model can locate the rectified signal without attaching an additional transmitter.

The S model locates a range of sonde frequencies that can be matched to the challenges of finding water and drain pipes. A lower frequency sonde is useful to trace deep cast-iron pipes. Higher frequency sondes can be easier to distinguish in an electronically noisy urban environment.

SuperCAT4+ can be used to locate a comprehensive set of active frequencies to support the detection and tracing of different cable types in varied environmental conditions. Higher frequencies such as the 131kHz or 65kHz can be used to find well insulated utilities such as twisted-pair telecom cables or insulated pipe joints. For long range locating of lower resistance cables such as power lines, lower frequency options are available.

Accessories to extend your capabilities

An array of accessories are available for the SuperCAT4+ range to apply signals safely and effectively to pipes and cables, including live cables.

Flexrods can be used to push a wide range of sondes up to 500’ (150m).

For non-conductive pipes or conduits the T1 can be connected to a FlexiTrace enables continuous locating and tracing of non-metallic ducts or pipes, for up to 260’ (80m).

Signal clamps can be used to apply a transmitter signal to a specific cable or pipe where direct connection is not possible. Live plug and cable connectors can be used to energize difficult to locate cables such as street distribution or lighting cables.



Optimized Locate

High sensitivity and selectivity delivers accurate locate even in electrically noisy environments.







Operating Modes

Simple mode selection matches SuperCAT4+ to the signal type being located.

Safety Built-In

All SuperCAT4 + models come with a range of features designed to aid safe working practices.

Dynamic Overload Protection

High levels of electrical interference, as found around substations and near high-voltage transmission cables can overload sensitive electronics. Dynamic Overload Protection filters this interference out, enabling SuperCAT4+ to continue locating where other units struggle.

Dig more safely with Strike*Alert*™

Strike*Alert* warns the user to the possible presence of shallow cables and utility lines in both Power and Active Line modes.

Although work practices and guidelines insist power cables are buried below a certain depth, a common cause of cable strikes, damage and possible injuries are unexpectedly shallow cables.

TruDepth™

Indicates depth when the locator is oriented correctly above the target cable, pipe or sonde for the most accurate reading.

Real Sound

The audio signals emitted by the SuperCAT4+ are derived from the signals detected. Radio, Power and Active signals can be easily distinguished from each other and form background noise, helping identification of target utilities and aiding differentiation of closely co-located utilities.

CPS Mode

Detects the signal radiated by a Cathodic Protection System (CPS)

CPS



Sonde Mode

Detects the signal radiated by a compatible sonde.



Active Line Mode

Detects the T1 signals radiated by buried utilities.



Power Mode

Detects the electromagnetic fields generated by loaded power cables.



Radio Mode

Detects long-range radio signals as they are re-radiated along buried metallic cables and pipes.



Strike*Alert* Warning

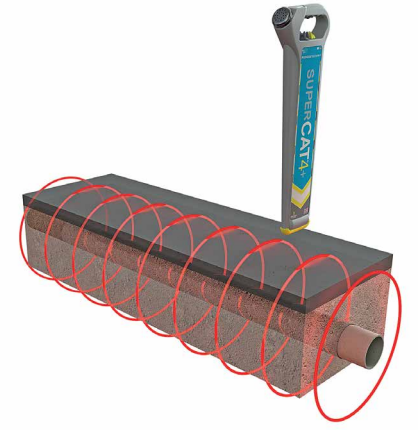
Warns of shallow buried utilities in Power and Active modes.



Connect more to find more

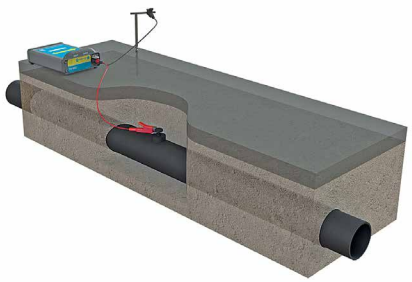
Cathodic Protection Systems

SuperCAT4+ CPS models are optimized to detect CPS signals to allow tracing of protected pipelines without disconnecting rectifiers.



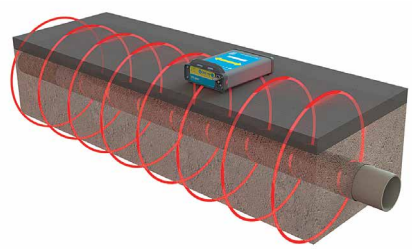
Direct Connection

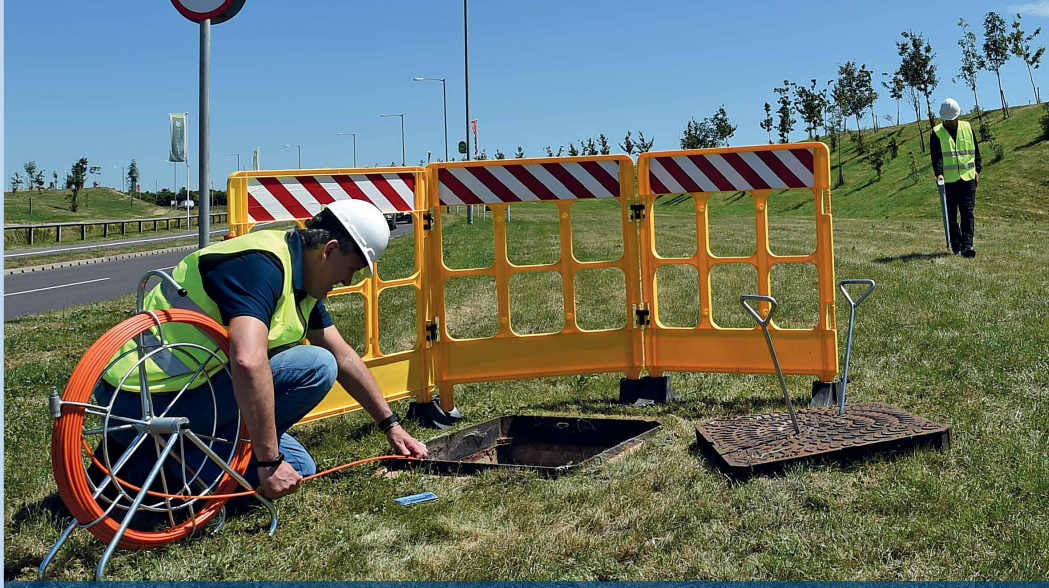
The most effective method for connecting to a valve, meter, junction box or other access point, as long as access is possible.



Induction

Conveniently apply a transmitter signal to a pipe or cable when, direct connection or signal clamping is not possible.





Additional accessories allow you to optimize the SuperCAT4+ to needs of your work environment

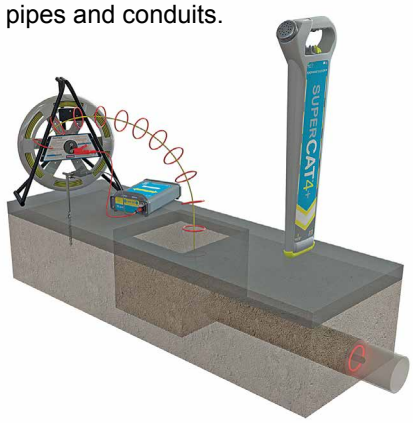
Sondes

Sondes enable non-metallic pipes to be accurately traced, depth determined and the position of blockages accurately identified.



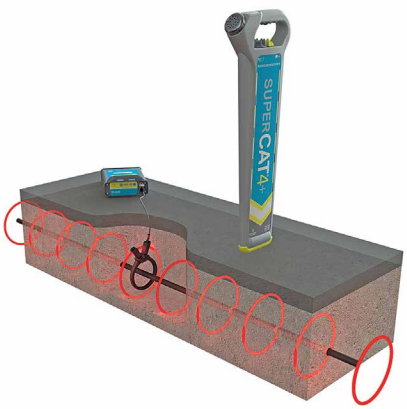
FlexiTrace™

Connect the T1 to a FlexiTrace to radiate a continuous tracing signal from non-metallic pipes and conduits.



Signal Clamping

Safely apply a T1 signal to a pipe or cable up to 125mm / 5” diameter without interrupting the supply.



Live Cable Connector

For applying the transmitter signal to a live cable or mains socket, the most certain method of locating a power distribution system in a street.



Find the right SuperCAT4+ for your application

Locate pipelines protected by a Cathodic Protection System

SuperCAT4+ CPS and T1-512 / T1-640

Optimized for metal pipes that use rectified currents as part of their Cathodic Protection System. The CPS signal can be located and traced without the need to apply an additional transmitter signal to the pipeline.

SuperCAT4+ CPS	
Strike*Alert*	✔
Depth readout*	✔
Dynamic Overload Protection	✔
Passive modes	
CPS locate	✔
Radio mode	✔
Power mode 50 Hz / 60 Hz**	✔
Active locating using:	**T1-512 T1-640**
Direct connection	
512 / 640 Hz**	✔
8 kHz	✔
33 kHz	✔
Induction	
8 kHz	✔
33 kHz	✔

Find water and drain pipes

SuperCAT4+ S and T1-512 / T1-640

For the challenge of detecting and tracing buried pipes, the SuperCAT4+ S locates the widest range of sonde frequencies.

Additionally, an active 33 kHz frequency can be applied to a FlexiTrace using a T1-512 or 640 for continuous signal tracing.

SuperCAT4+ S	
Strike*Alert*	✔
Depth readout*	✔
Dynamic Overload Protection	✔
Passive modes	
Radio mode	✔
Power mode 50 Hz / 60 Hz**	✔
Sondes	
Sonde 512 / 640 Hz**	✔
Sonde 8 kHz	✔
Sonde 33 kHz	✔
Active locating using:	**T1-512 T1-640**
Direct connection	
33 kHz	✔
Induction	
33 kHz	✔

Detect a broad range of utilities

SuperCAT4+

Designed to meet the demanding environments of the construction industry, this multi-utility locator can be used with a wide range of sondes and accessories.

Pair with the higher frequency range of T1-131 for environments where locating Telecom or high-impedance cables are a priority. Alternatively, use with the 65 / 512 / 640 for a lower frequency range suitable for pipe tracing.

SuperCAT4+			
Strike*Alert*	✔		
Depth readout*	✔		
Dynamic Overload Protection	✔		
Passive modes			
Radio mode	✔		
Power mode 50 Hz / 60 Hz**	✔		
Sondes			
Sonde 512 / 640 Hz**	✔		
Sonde 33 kHz	✔		
Active locating using:	**T1-512 T1-640**	**T1-512 / 65 T1-640 / 65**	**T1-131**
Direct connection			
512 / 640 Hz**	✔	✔	
8 kHz	✔	✔	✔
33 kHz	✔		✔
65 kHz		✔	
Super HF 131 kHz			✔
Induction			
8 kHz	✔	✔	✔
33 kHz	✔		✔
65 kHz		✔	



*Choose between M (Metric) or I (Imperial) locator models.

**Power frequency and corresponding active low frequency set by model, (50 Hz – 640 Hz and 60 Hz – 512 Hz).

RADIODETECTION

SPX

Visit **www.radiodetection.com**

Global locations

Radiodetection (USA)
28 Tower Road, Raymond, Maine 04071, USA
Tel: +1 (207) 655 8525 Toll Free: +1 (877) 247 3797 rd.sales.us@spx.com

Pearpoint (USA)
39-740 Garand Lane, Unit B, Palm Desert, CA 92211, USA
Tel: +1 800 688 8094 Tel: +1 760 343 7350 pearpoint.sales.us@spx.com **www.pearpoint.com**

Radiodetection (Canada)
344 Edgeley Boulevard, Unit 34, Concord, Ontario L4K 4B7, Canada
Tel: +1 (905) 660 9995 Toll Free: +1 (800) 665 7953 rd.sales.ca@spx.com

Radiodetection Ltd. (UK)
Western Drive, Bristol, BS14 0AF, UK
Tel: +44 (0) 117 976 7776 rd.sales.uk@spx.com

Radiodetection (France)
13 Grande Rue, 76220, Neuf Marché, France
Tel: +33 (0) 2 32 89 93 60 rd.sales.fr@spx.com

Radiodetection (Benelux)
Industriestraat 11, 7041 GD 's-Heerenberg, Netherlands
Tel: +31 (0) 314 66 47 00 rd.sales.nl@spx.com

Radiodetection (Germany)
Groendahlscher Weg 118, 46446 Emmerich am Rhein, Germany
Tel: +49 (0) 28 51 92 37 20 rd.sales.de@spx.com

Radiodetection (Asia-Pacific)
Room 708, CC Wu Building, 302-308 Hennessy Road, Wan Chai, Hong Kong SAR, China
Tel: +852 2110 8160 rd.sales.asiapacific@spx.com

Radiodetection (China)
13 Fuqianyi Street, Minghao Building D304, Tianzhu Town, Shunyi District, Beijing 101312, China
Tel: +86 (0) 10 8146 3372 rd.service.cn@spx.com

Radiodetection (Australia)
Unit H1, 101 Rookwood Road, Yagoona NSW 2199, Australia
Tel: +61 (0) 2 9707 3222 rd.sales.au@spx.com

Radiodetection is a leading global developer and supplier of test equipment used by utility companies to help install, protect and maintain their infrastructure networks.

Copyright © 2017 Radiodetection Ltd. All rights reserved. Radiodetection is a subsidiary of SPX Corporation. Radiodetection, SuperCAT, SuperCAT4+, Strike*Alert*, eCert are trademarks of Radiodetection in the United Kingdom and/or other countries. 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. 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/SuperCAT4+/ENG/03