RADIODETECTION®

C.A.T4® and Genny4®

CABLE AVOIDANCE TOOLS – DETECT MORE, FASTER, SMARTER, SAFER

SPX TECHNOLOGIES

C.A.T4® and Genny4®

The preferred cable avoidance tool for decades based on its ease of use and reliability of results

Dig more safely

As a safety critical tool, C.A.T4® and Genny4® offer a number of features designed to support safe working and help to drive utility strike rates down.

Strike*Alert*® warns the operator of shallow buried utilities, while the SWING™ warning alerts of incorrect usage patterns, encouraging corrective action.

C.A.T4's Dynamic Overload Protection™ feature automatically filters out high levels of interference, allowing operators to continue working even in electrically noisy areas such as substations and under high-voltage cables.

Detect more, detect faster

The Radiodetection C.A.T and Genny is designed to locate buried pipes and cables prior to any excavation keeping operators safe and allowing utility management at minimum risk and cost.

With a clear backlit display, mode controls and sensitivity at your fingertips, the C.A.T and Genny has become the preferred Cable avoidance tool for decades based on its ease of use and reliability of results.

Small cable locating

Simultaneous dual frequency and simple, intuitive, locating methods assist C.A.T4 and Genny4 users to locate Small Diameter cables such as telecom twisted pairs, CATV feeds, spurs and drop-offs which have historically been hard to find and a common strike risk.

Avoidance Mode™

Avoidance Mode speeds the process of pre-dig scanning by searching for Power, Radio and Genny signals simultaneously. C.A.T4 Avoidance Mode offers fully controllable responses, allowing operators to rapidly pinpoint a buried utility and trace it across an area. Real Sound audio enables operators to differentiate between individual signals and utilities to maximise locate speed whilst maintaining safety.

SWING warning

Radiodetection C.A.Ts are designed to respond exceptionally fast to even the smallest detectable underground signals. Radiodetection's research into underground signal detection has shown that the ability of an operator to identify these buried utilities is directly affected by careless working practices such as excessive or rapid swinging.

To further reduce utility strike risks, the gC.A.T4®+ model is equipped with sensors to detect such incorrect usage and warn the operator with an alert that is also stored in the data log.

Genny4 signal boost

Alongside its familiar standard power mode, Genny4 provides a Signal Boost feature which increases the output signal by up to a factor of 10, enabling operators to locate utilities deeper and over greater distances.

Model choice

There are three C.A.T4 models to chose from, for customers whose prime reason for using a cable avoidance tool is to avoid any utilities, then the C.A.T4 and C.A.T4+ are a perfect solution.

For customers who wish to survey and report what they find and trace, the gC.A.T4+ model features usage monitoring and GPS, logging key locate parameters every second to aid in identifying training needs, compliance and recording workflow patterns, providing data on not only when and how, but also where the gC.A.T4+ was being used.

Using a gC.A.T4+ with C.A.T Manager® Online, Radiodetection's asset tracking and workflow management system, enables Managers to produce reports indicating when where and how all their C.A.T4s are being used, enabling consistent improvement programs to be introduced, reducing bad practice, improving safety by reducing cable strikes and costs of excavation programs.

Features	C.A.T4	C.A.T4+	gC.A.T4+
Avoidance Mode (*R*)	●	●	●
Genny Dual Signal Locate (*G*)	●	●	●
Power Signal Locate (*P*)	●	●	●
Radio Signal Locate (*R*)	●	●	●
eCert®	●	●	●
Dynamic Overload Protection	●	●	●
Depth		●	●
Strike*Alert*	●	●	●
Service Due Indicator			●
SWING Warning			●
CALSafe®			●
C.A.T Operation logging			●
Bluetooth® Wireless Technology			●
GPS/GNSS			●
C.A.T Manager for PC Support	●	●	●
C.A.T Manager Mobile App Support			●

C.A.T4 Cable Avoidance Tool range

Advanced digital design with the classic Radiodetection C.A.T look and feel.

Trigger switch – intuitively control power on/off

Depth button

Detachable loudspeaker for use in noisy environments

Mode selector switch

Sensitivity control

Fully integrated data logging memory, GPS/GNSS receiver and Bluetooth® Low Energy options

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

Battery (2 x D-Cell) and USB data connection compartment

Replaceable wear boot

Genny4 signal generator

Locate more, and smaller, utilities with dual power and simultaneous dual frequency design.

On/off switch

Loudspeaker

Battery compartment (4 x D-Cell)

Signal Boost button

Accessory connection socket

Accessory storage tray

Accessory storage tray

Conveniently store Genny4 accessories, including the supplied magnet, earth stake and direct connection leads.

High contrast display with auto-backlight

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

High speed USB 2.0 data connection

Connect to a PC to configure C.A.T settings, run an eCert, and to rapidly transfer usage data from gC.A.T4 series locators.

Developing Locator Skills

The gC.A.T4+ automatically stores how, when,and where the Locator has been used. The information can be transferred to a PC at any time and then using the C.A.T Manager for PC, understand how the Locator has been used at a particular time. This information is invaluable when trying to ensure correct use of the locator.

Information stored by gC.A.T4+

- Mode of use
- Detected Signal strength (from Power, Radio and Genny)
- Signal strength warnings(Signal Overload)
- Date Time and GPS position of Survey
- All Alerts during operation (Strike*Alert*, SWING)
- Bargraph display level
- Sensitivity control level
- Depth measurements
- Battery status
- Calibration status
- Time to next Calibration
- Audio status
- Inclination of Locator angle

Locator Alerts

CALSafe*
Indicates how long before your C.A.T4 needs a service and calibration check.

Strike*Alert* Warning
Warns of shallow buried utilities.

SWING Warning*
Ground-breaking feature warns operators of incorrect usage to promote best working practices.

*gC.A.T4+ model only

Operating modes

Avoidance Mode
Simultaneously search for and pinpoint Genny, Power and Radio signals for rapid surveying.

Genny Mode
Detects the signals transmitted by Genny4, with on-demand estimation of the depths of buried utilities.

Power Mode
Detects the electromagnetic fields generated by loaded power cables.

Radio Mode
Detects long-range radio signals as they travel along buried cables and pipes.

C.A.T Manager Online

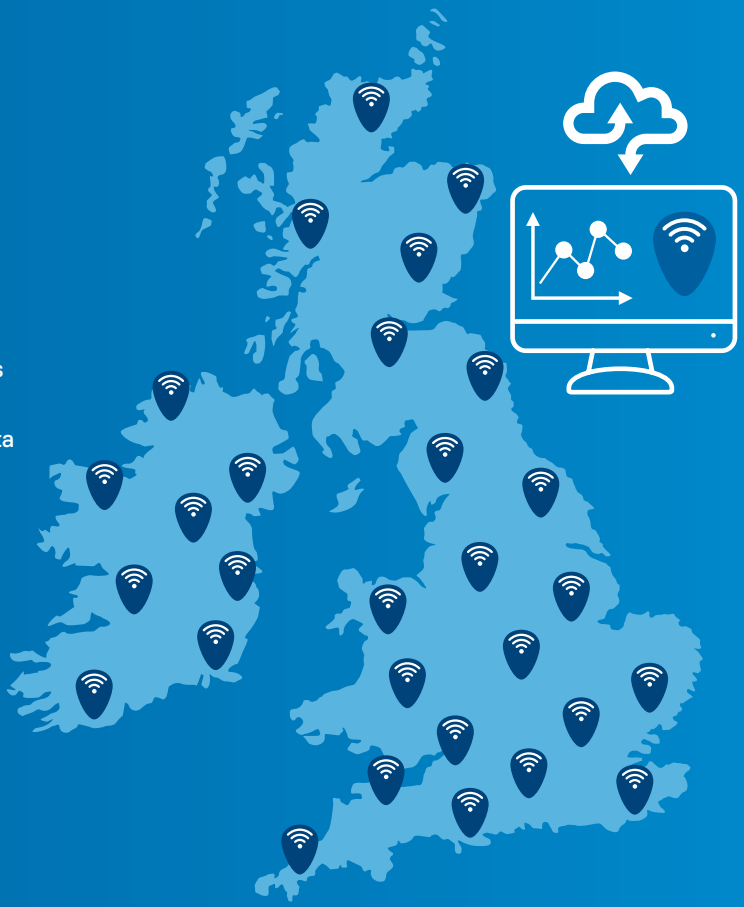
C.A.T Manager is a survey and usage analysis tool that allows Depot or Supervisor management within fleet or utility Companies to better manage their g.C.A.T4+ fleets.

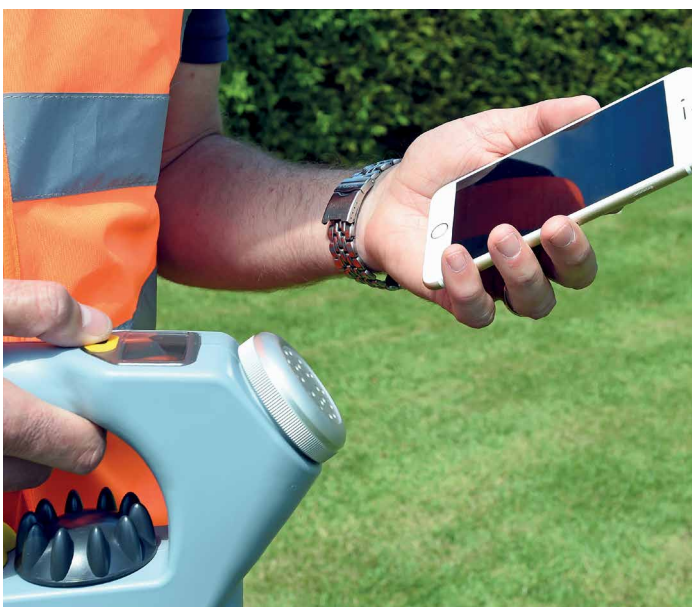
Using a standard web browser, managers and supervisors can review how, when and where, their entire team of field operators are using their C.A.T4 locators, provide automatic reports of gC.A.T4+ activity with survey notes and photos, allowing the data to be visualized on Google Maps™.

It can also be used to prevent poor work practices developing, by identifying training needs early.

It is directly aimed at Fleet and utility management to drive best behaviour and reduce strikes.

Data can be exported and shared as KML or CSV files.





C.A.T Manager for Mobile

This phone App (Android™ or iOS®) links the gC.A.T4+ to the cloud based C.A.T Manager Online. Data is transferred automatically as it is generated from the gC.A.T4+. Once it is in the CMO cloud, all the CMO tools can be used to set use parameters and monitor/adjust methods of gC.A.T4+ use.

Features

C.A.T fleet management

Register and maintain all your gC.A.T4+ and Genny4 products. Check when the gC.A.T4+ calibration is due to expire.

Online storage

The C.A.T Manager Online system stores and backs-up all the data in a secure cloud. No need to change your company's IT infrastructure.

C.A.T operator feedback

C.A.T Manager Mobile app allows operators to receive immediate on-site feedback, helping them to improve their performance and to operate more safely.

Survey analysis and usage reporting

All scans received from C.A.T Manager Mobile, or uploaded using the web upload function, are automatically grouped into survey tasks and can be reviewed using a standard web browser. Usage analysis and survey reports can be generated, and downloaded as PDF files.

Local download

Retrieve all your data from the C.A.T Manager cloud to store on your PC or local network.

Pro Subscriptions

Subscribers to the Pro version also benefit from:

Team and account management

gC.A.T4+ operators can be organised by region, depot, accounts and contracts.

This allows managers to review the performance of different groups of users. Reports can be generated for customers and stakeholders, showing adherence to best practice, or documenting ongoing improvements.

Advanced statistical analysis

Access detailed analysis to assess users, regions and accounts. This allows objective performance reviews to aid continuous improvement processes.

Always Evolving

The C.A.T Manager Online system is continually evolving, offering new functionalities and features designed in collaboration with our customers, to simplify field and office operations.

To find out more, and see how C.A.T Manager Online can benefit your team, visit: **www.radiodetection.com/catmanageronline**

Subscription Levels

Features	Standard	Pro
Android and Apple mobile app	✓	✓
C.A.T fleet management	✓	✓
Online Storage	3 months	Indefinite
C.A.T operator feedback	✓	✓
Survey Analysis & Usage reporting	✓	✓
Backup option	✓	✓
E-Mail and tickets support	✓	✓
Phone Support	✗	✓
Team and account management	✗	✓
Advanced statistical analysis	✗	✓

C.A.T Manager is available as a PC program or as a Cloud based online application.

C.A.T Manager App is free to download and use from Apple App Store and Google Play™.

GET IT ON Google Play

Download on the App Store

Accessories

Genny4 accessories are designed to transmit locate signals along most infrastructure types, including non-conductive targets such as plastic ducts and ceramic pipes, including:

- Signal clamps
- Sonde
- Live plug/cable connectors
- FlexiTrace™
- High strength Neodymium magnet

Genny4 accessories are reverse compatible with Genny3. For more information on the wide range of accessories available, contact your local Radiodetection office, or visit **www.radiodetection.com**

Training

Radiodetection offers comprehensive training options for anyone who needs to know how a C.A.T4 works at any level, including operators, managers and trainers. Radiodetection training promotes best working practices and supports those responsible for Cable Avoidance Management.

Contact your local office or representative for more details.

Service

Maintaining your equipment to keep it in the field for as long as possible makes obvious financial sense for all C.A.T4 owners.

Since Radiodetection developed its first C.A.T and tracing systems in the 1970s, our Authorised Service Centers have been providing BSI/ISO standard annual calibration, and factory standard repairs using original specification parts, to keep your survey equipment up to scratch.

You can be confident that your C.A.T safety tools will be tested on purpose built, computer controlled test rigs, and are working as well as they were when new.

For more information go to
www.radiodetection.com/service-centers

C.A.T4 Maintenence

Service due indicator and CALSafe

Annual service and calibration is key to ensuring that C.A.T operators can work safely and with confidence in their equipment. To support this, the gC.A.T4+ provides a 31-day Service Due countdown warning on start-up.

CALSafe – can be set to automatically deactivate on expiry of the defined calibration interval, to help ensure compliance with individual company policies.

The interval required between services can be customized using the C.A.T Manager software to anything up to one year.

eCert – remote calibration validation

eCert remote calibration testing offers an innovative calibration option intended to form part of an annual service regime. Activated through the C.A.T Manager PC software, eCert provides a fast, thorough and convenient test of the key locating circuitry within C.A.T4, and validates the results against the original factory calibration using an internet connection to Radiodetection. Following an eCert test pass, a Radiodetection Calibration Certificate for that C.A.T4 can be printed or saved.

For a complete maintenance package, Radiodetection also offers exhaustive factory-backed service and recalibration options including full mechanical integrity inspection and function testing.

Technical support:

Radiodetection offers an on-line information system for all technical enquiries about our products and software services. We have a extensive resource of application and product knowledge so ask us a question or look through our FAQ.

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

Scan to see a full list of our office locations

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Cable Locators & Survey