C.SCOPE
CABLE AVOIDANCE EQUIPMENT

CXL4 Dual Frequency Cable Avoidance Tool
DXL4 Dual Frequency Cable Avoidance Tool with depth measurement
SGA4 One Watt Signal Generator
SGV4 One Watt Signal Generator with visual display

High Performance Multi Frequency digital pipe and cable location equipment with in-built data logging, Bluetooth™ connectivity and GPS tracking options.

The new XL4 range of Cable Avoidance Tools and Signal Generators from C.Scope represent a significant advance in cable detecting and tracing performance.

Innovative new features have been introduced and popular existing modes of detection have been enhanced to allow the XL4 range of Cable Avoidance Tools and Signal Generators to successfully detect even the hardest to find pipes and cables. Particular attention has been paid to minimise the potential for human error to impact on operating performance and to effect better working practices.

The XL4 range of Cable Avoidance Tools now have improved performance across all modes of detection; Power, Radio, Generator and *All*Scan, whilst remaining easy to operate ensuring there is only a minimal need for training or retraining.

Intelligent features such as **PeakHold** allows operators to quickly and confidently pinpoint the exact position of buried services. A clever **AlarmZone™** feature alerts operators to the presence of particularly shallow pipes or cables with the exact trigger depth adjustable by the user to best suit local requirements. And a dynamic **SwingSensor** gently alerts the operator if the Locator is being swung excessively, potentially compromising the accuracy of any locates.

To compliment and support in-built data logging on C.Scope Cable Avoidance Tools, the SGV4 Signal Generator also has **full data logging capability**. A years worth of data can be stored, in normal usage, on both the Cable Avoidance Tools and Signal Generator. This can be conveniently transferred at any time to supervisors for analysis via a USB cable to a PC or wirelessly via Bluetooth™ (model dependent) to a PC, tablet or smartphone. The free-to-download **C.Scope PC Toolkit** and **C.Scope Relay smartphone App** analyses the stored data allowing training requirements to be quickly identified.

In-built GPS models also allow a record to be kept of exactly where the Cable Avoidance Tools have been used that can then be viewed in partnership with **Google Earth™** or **Google Maps™**. Additionally, the Cable Avoidance Tool can be paired to third-party GPS Survey equipment, via the Locators in-built Bluetooth™ facilitating 'one-pass' underground utility surveys to be undertaken.

The XL4 Cable Avoidance Tools and Signal Generators do not require periodic recalibration. A fully **Automatic Daily Self Test (ADST)** tests and confirms that the Cable Avoidance Tools and the Signal Generator are functioning at their optimum level each day.

The result of each ADST is recorded and stored within the data files and can be used to produce a **Product Validation Certificate** using the PC Toolkit. C.Scope authorised Service Centres are also able to provide third-party Test and Calibration Certification should you require it to comply with client or internal regulations.

The new XL4 range of C.Scope Cable Avoidance Tools and Signal Generators retain the reliability and durability expected of all C.Scope products and now come with a **Three Year Warranty**.

The **simultaneous dual-frequency 33kHz and 131kHz** signal output of the Signal Generators is ideal for maximising the number of buried services that can be energised and then detected.
The SGV4 Signal Generator can apply the dual frequency signal without direct connection to buried services, using either a Signal Clamp or the simple induction method from ground level, providing a significant improvement in the detection of the smaller diameter or poorly earthed cables.
The fully adjustable **One Watt Power Output** of the Signal Generators means that deeper pipes and cables can be effectively energised and then traced over ever longer distances.

CXL4
Dual Frequency
Cable Avoidance Tool

Power Mode
Radio Mode
Generator Mode: *Simultaneous 33+131kHz* *33kHz signal detection for all purpose tracing and utility avoidance* *+ 131kHz for optimum detection of short length, small diameter or unearthed cables.*
All Scan Mode
-
Overload Protection
Alarm Zone™
Peak Hold
Dynamic Swing Sensor
Automatic Daily Self Test
Data Logging of all Locator activity (option)
Data Transfer by USB. (Bluetooth™ option)
In-Built GPS position logging (option)
Connectivity to Survey level GPS products (option)
High Resolution Backlit Liquid Crystal Display
No periodic Calibration required
Product Validation Certificate available

DXL4
Dual Frequency
Cable Avoidance Tool
with depth measurement

Power Mode
Radio Mode
Generator Mode: *Simultaneous 33+131kHz* *33kHz signal detection for all purpose tracing and utility avoidance* *+ 131kHz for optimum detection of short length, small diameter or unearthed cables.*
All Scan Mode
Accurate Depth Indication
Overload Protection
Alarm Zone™
Peak Hold
Dynamic Swing Sensor
Automatic Daily Self Test
Data Logging of all Locator activity
Data Transfer by USB. (Bluetooth™ option)
In-Built GPS position logging (option)
Connectivity to Survey level GPS products (option)
High Resolution Backlit Liquid Crystal Display
No periodic Calibration required
Product Validation Certificate available

SGA4 One Watt
Signal Generator

One Watt High/Low Power Output
Simultaneous 33+131kHz Signal
Pulsed or Continuous Output Signal
Three Signal Application Techniques: *Direct Connection / Wraparound / Induction*
-
-
-
-
No periodic Calibration required
-
In-built Accessory Tray

SGV4 One Watt
Signal Generator
with visual display

One Watt 4-level adjustable Power Output
Simultaneous 33+131kHz Signal
Pulsed or Continuous Output Signal
Three Signal Application Techniques: *Direct Connection / Wraparound / Induction*
Automatic Daily Self Test
Data Logging of all Signal Generator activity
Data Transfer by USB
High Resolution Backlit Liquid Crystal Display
No periodic Calibration required
Product Validation Certificate available
In-built Accessory Tray

All C.SCOPE digital products come with a three year warranty and require no periodic calibration.

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