C.SCOPE®

Gibbins Rd

Gibbins Rd

Doran Walk

Wilmer Lea Close

Carpenter's Rd

Rosher Clo

The Builder Arms

Lett Rd

Cable Avoidance Tool
C.SCOPE CXL

Depth Measuring Cable Avoidance Tool
C.SCOPE DXL

Precision Pipe & Cable Locator
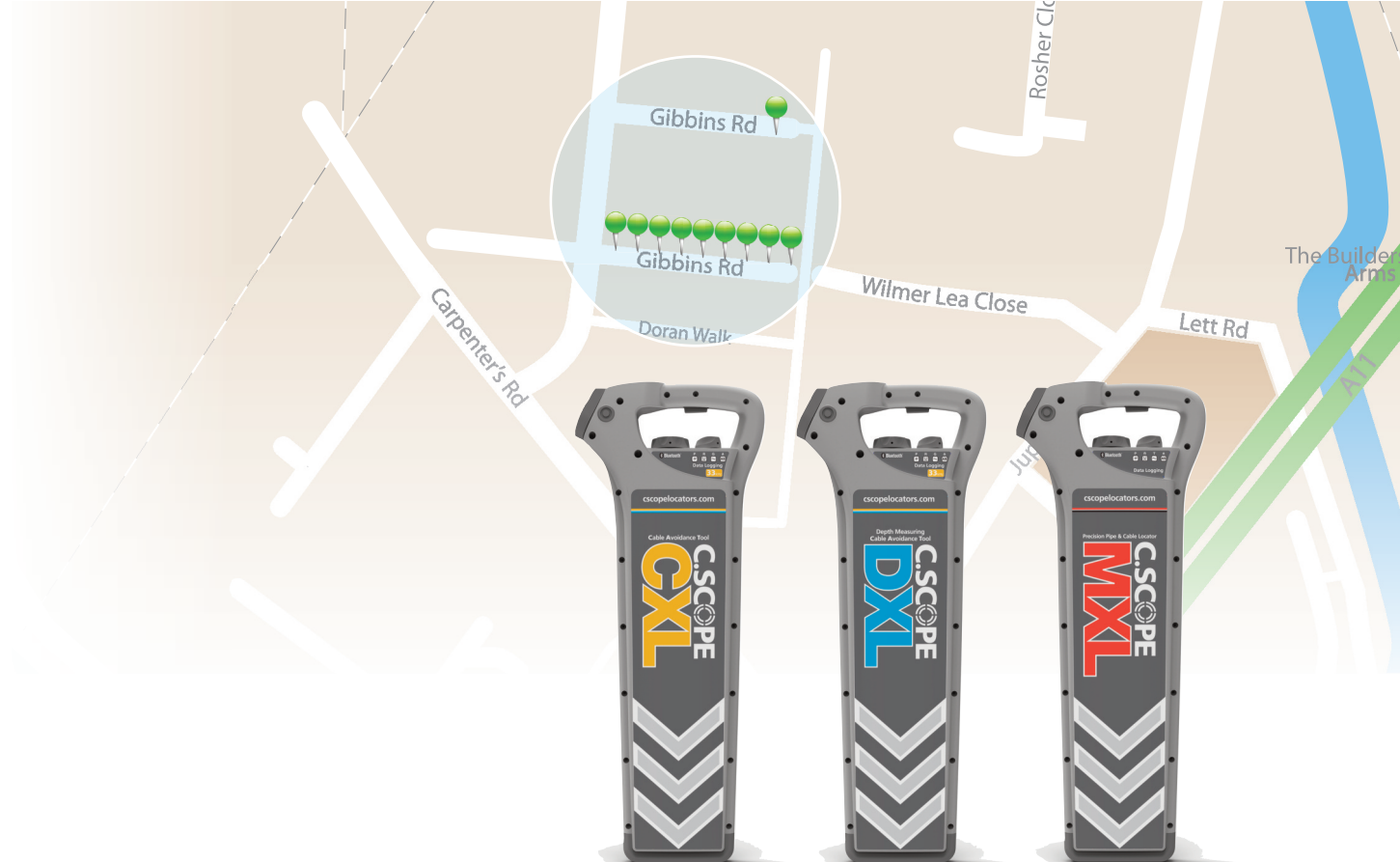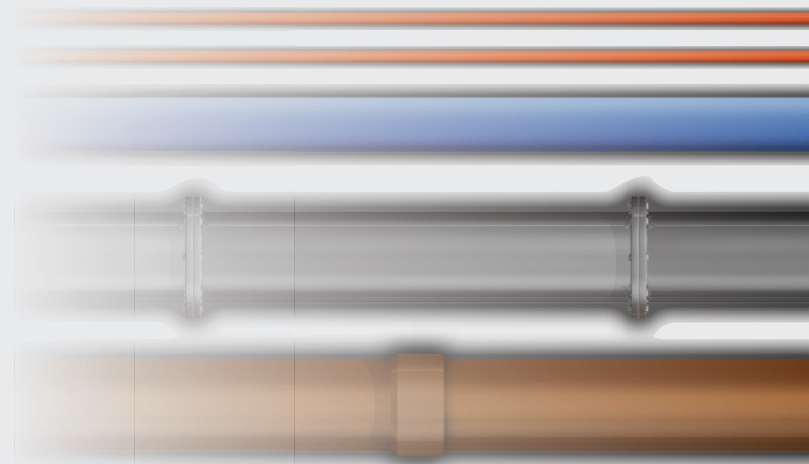## C.SCOPE MXL

cscopelocators.com

DATA LOGGING
CABLE
AVOIDANCE
TOOLS

WHAT? WHERE? WHEN? HOW?

DATA LOGGING USING CABLE AVOIDANCE TOOLS

For many years the use of C.Scope Cable Avoidance Tools and Signal Generators has helped utility operators avoid personal injury by pinpointing the position of pipes and cables prior to excavation work commencing.

So effective are these devices that the use of a Cable Avoidance Tool and Signal Generator is now standard practice in the utility and groundwork industries. In the UK, the Health and Safety Executive (HSE) now expect these products to be used in all of their detecting modes before every excavation.
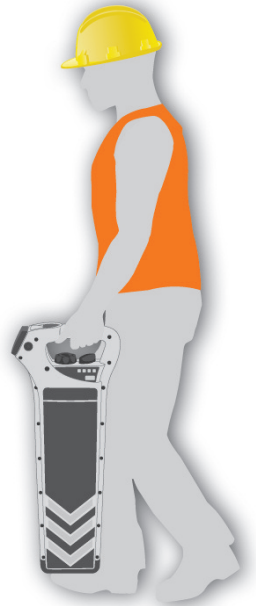
There is no doubt that, with the Cable Avoidance Tool being adopted into everyday use, huge advances in safety have been made BUT, despite this, cable strikes still happen leading to operator and third party injury and costly investigations.
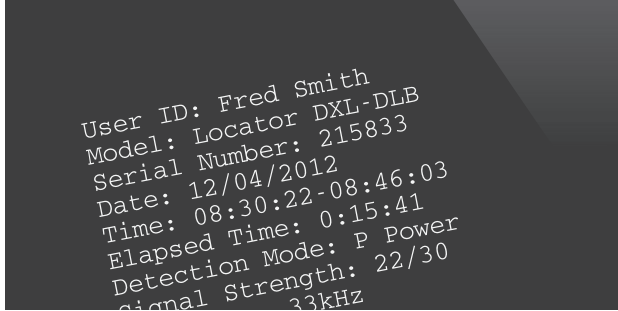
One of the key questions that need to be answered in the event of a cable strike is; "Was the Cable Avoidance Tool actually used before the excavation work began?" And, if it was used "Was it used fully and correctly?"

To assist in further reducing cable strikes and personal injury, C.Scope have introduced a range of Data Logging Digital Cable Avoidance Tools based on the recently released CXL, DXL and MXL range of digital products.

The new models have built in Data Logging which records, every second, exactly what the operator is doing without any change to daily working practices. The stored data can then be retrieved for review.

C.Scope believe that this is a major step forward for those contractors and utilities that wish to develop their training programmes, to improve their operator skills and most importantly to reduce cable strikes.

```
User ID: Fred Smith
Model: Locator DXL-DLB
Serial Number: 215833
Date: 12/04/2012
Time: 08:30:22-08:46:03
Elapsed Time: 0:15:41
Detection Mode: P Power
Signal Strength: 22/30
            33kHz
```

LOG
User / Model / Serial No. / Date / Time

LOG
Detection Mode
P R G A
P R T A

LOG
Signal Strength

LOG
Frequency

LOG
Depth
DXL-DLB and
MXL-DLB only

LOG
Sonde Depth
DXL-DLB and
MXL-DLB only

FEATURES

80 HOURS OF OPERATOR ACTIVITY DATA
STORED AND SENT TO PC AND/OR MOBILE PHONE

DATA LOGGING OF OPERATOR ACTIVITY

C.Scope Data Logging Cable Avoidance Tools will store 80 hours worth of operator activity including**:**

- **USER**
- **Cable Avoidance Tool MODEL TYPE**
- **SERIAL NUMBER**
- **DATE AND TIME**
- **DETECTION MODE (POWER - RADIO - GENERATOR / TRANSMITTER - *ALL*SCAN Modes)**
- **SIGNAL STRENGTH**
- **Signal Generator / Transmitter FREQUENCY**
- **Cable / Pipe DEPTH**
- **Sonde DEPTH**

THREE MODEL TYPES

Data Logging is available on C.Scope's entire range of digital Cable Avoidance Tools in three new model types.

CXL-DLB Cable Avoidance Tool

DXL-DLB Cable Avoidance Tool with Depth

MXL-DLB Multi-Frequency Locator

All C.Scope Data Logging products are used in exactly the same way as the standard range of digital Cable Avoidance Tools so no extra training is needed.

COMPATIBILITY

Fully compatible with SGA / SGV Signal Generators, MXT Transmitter and C.Scope Sondes.

MAINTENANCE

As with ALL C.Scope digital Cable Avoidance Tools - No yearly calibration checks required.

DATA RETRIEVAL

All Data Records can be transferred from the Cable Avoidance Tool directly to a Windows® based PC or indirectly via a mobile smartphone for later analysis.
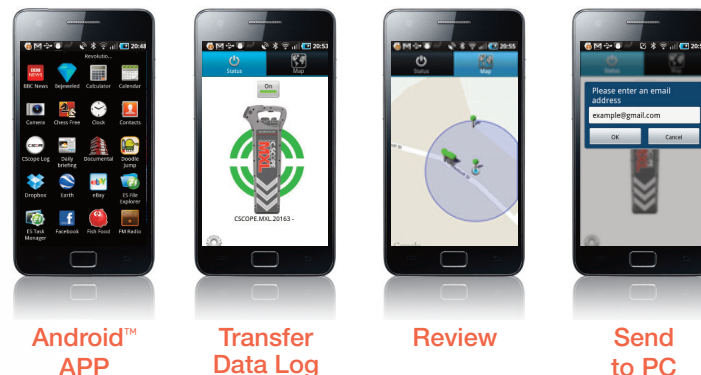
THREE MODEL TYPES CXL-DLB DXL-DLB MXL-DLB
COMPATIBLE WITH C.SCOPE SGA SGV MXT

DATA RETRIEVAL

In the event of a cable strike or as part of a routine company training audit, Data Records saved on the Cable Avoidance Tool can be retrieved, reviewed and analysed. The Data Records can be transferred quickly off site using Bluetooth® via a mobile smartphone to an office based PC or directly to a laptop.

Android™ APP

Transfer Data Log

Review

Send to PC

TRANSFER RECORDS USING A MOBILE SMARTPHONE

C.Scope has an Android Smartphone **App** called **Relay** that transfers data records from a C.Scope Cable Avoidance Tool to an **Android**™ smartphone. Once transferred to the smartphone, it can be sent to anyone via text or email.
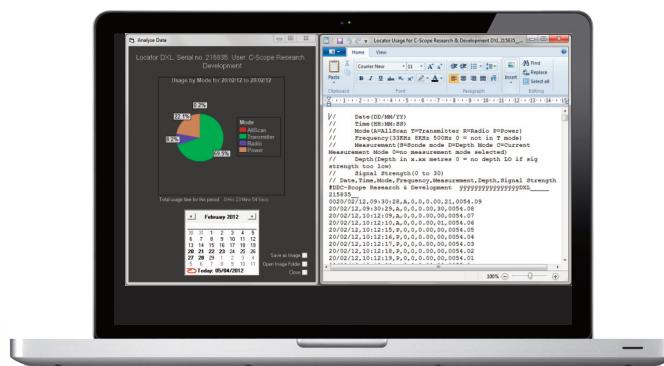
The benefit of using a smartphone for data retrieval is that a phone is more convenient to carry and use than a bulky laptop and can allow data to be transferred 'off site' faster and more cost effectively.

PC CONNECTIVITY

In order to retrieve Data Records from the Cable Avoidance Tools, simply use the free C.Scope Software Toolkit, which enables all the data to be transferred to a **Windows**® based PC via **Bluetooth**®

Once transferred to a PC, the Data Records can be interrogated by the C.Scope Software Toolkit to show how and when the Cable Avoidance Tool was used. The Data Records can also be imported into a spreadsheet or your own reporting software.

SURVEYING INSTRUMENT CONNECTIVITY

C.Scope's new Data Logging Cable Avoidance Tools are compatible with major survey equipment manufacturers handheld sub-metre positioning instruments.

In addition, the Data Logging files can be saved in .csv format ensuring easy integration into GIS (Geographic Information System), task scheduling, mapping, surveying, site management and asset tracking software solutions.
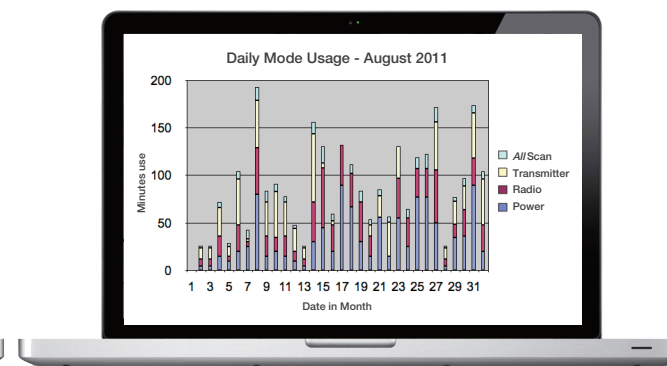
GPS (Global Positioning System) Logging

If you have a smartphone with GPS then using C.Scope **Relay** the GPS information can be automatically added to data from the Cable Avoidance Tool as it is being used, so that now THREE key elements of information about the Cable Avoidance Tool's usage are recorded: WHEN it was used, HOW it was used and WHERE it was used.

C.Scope Software Toolkit

C.Scope Software Toolkit shows time-stamped data files and mode usage chart

.csv file integration of data into a third party application

BENEFITS

SAFETY
- Ensure that a high standard of cable detection location work is maintained at all times.
- Improve field-operative safety by identifying behavioural issues.
- No additional operator retraining required.

TRAINING
- Provide evidence of correct use after routine training courses.
- Allow specific training needs to be clearly identified with individual users.
- Compare Cable Avoidance Tool usage across the workforce.

TRACKING
- Establish duration and frequency of Cable Avoidance Tool use during daily work schedules.
- Provide confirmation of use of equipment in the event of a cable strike.
- Downloaded operator usage data can be reviewed as part of a Health & Safety investigation.
- Establish who was doing what, where, when and how.
- Improve on-line risk assessments and method statements.
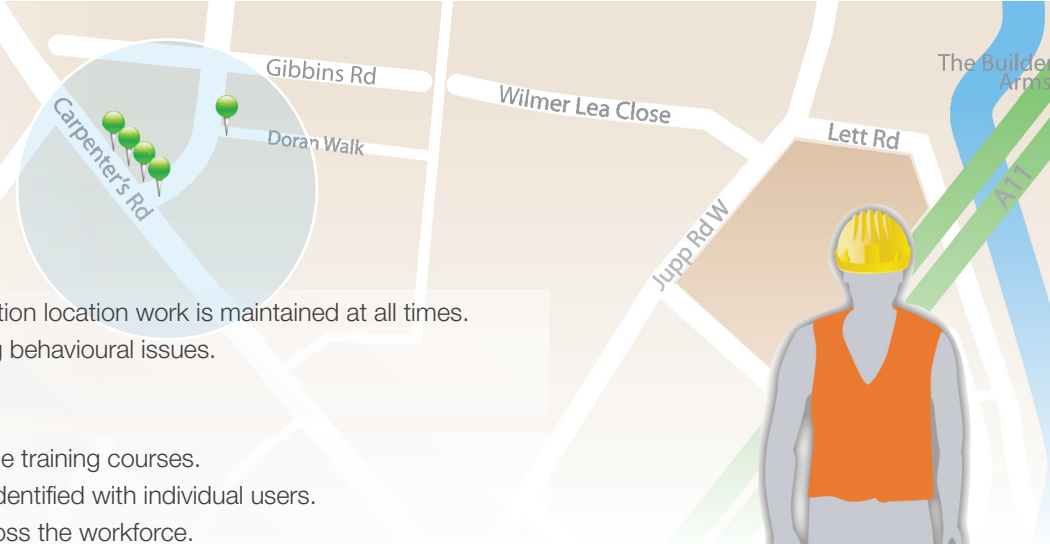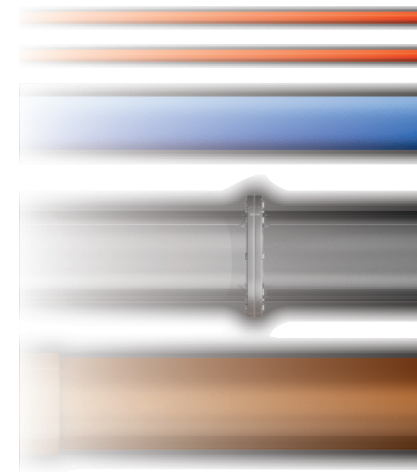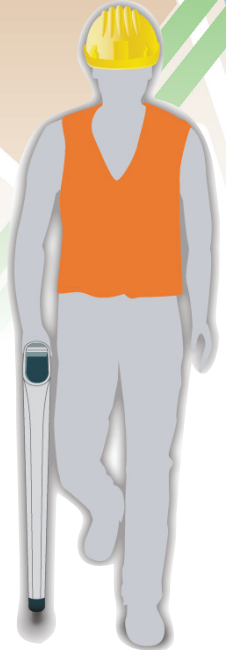- Dispute avoidance and resolution.

Operators use C.Scope Data Logging Cable Avoidance Tool. All usage recorded.

Data Transfer over Bluetooth®

C.Scope Relay Android phone APP receives incoming data and adds GPS if required.

View and analyse usage data using C.Scope Software Toolkit or third party application (data saved as .csv files).

PC receives incoming data directly using C.Scope Software Toolkit or via smartphone based email.

DATA LOGGING
CABLE AVOIDANCE TOOLS

Minimum system requirements: Bluetooth® enabled PC with Microsoft® Windows® XP SP2, Windows Vista®, Windows 7 (32/64bit).

Minimum smartphone requirements: Android™ 2.2 or above with Bluetooth® and GPS.

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All C.SCOPE products are manufactured
under a quality system accredited to ISO9001:2008