



## Technical Specifications



**Cable Avoidance Tool  
Cable Avoidance Tool XD  
High Performance**

### Controls

- 1) On/off control. Press for 'on', release for 'off'. Battery check tone at switch on.
- 2) 3 position function select switch:  
P - Power Mode for detecting live imbalanced cables.  
R - Radio Mode for detecting re-radiated radio signals.  
G - Generator Mode for detecting conductors carrying the signal generated by the C.Scope Signal Generator or from the Sonde Transmitter.
- 3) Sensitivity Control.
- 4) Push button to activate depth measurement - XD only.

### Display

Large, easy to read liquid crystal display. Shock resistant, mounted behind polycarbonate lens for maximum protection.

The display indicates:

- 1) Signal strength.
- 2) Battery condition.
- 3) Confirmation of selected mode.
- 4) Depth in G mode - XD only.

### Frequency

P - 50-400Hz R - 15-20kHz G - 33kHz

### Depth of Detection

The Cable Avoidance Tool will typically detect at the following depths:  
P - 3 metres R - 2 metres G - 3 metres  
Depth measurement - XD only  
Range: 0.25 - 3.0m (line) 1.0 - 6.0m (sonde)

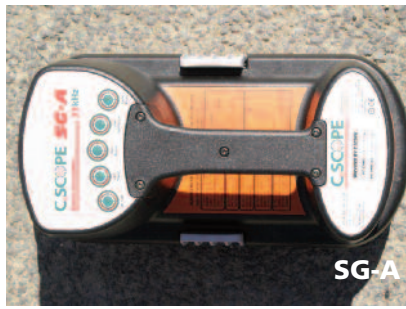
### Batteries

8 x AA (IEC type LR6)  
Typical life (guide) - 40 hours

### Weight

3.0kg (including batteries).

Moisture/Dust resistant to IP65.



SG-A



SG-V

**Signal Generator SG-A  
Signal Generator SG-V**

### Controls

- 1) On/off
- 2) Low Power/high power - SG-A
- 3) Power increase/decrease - SG-V
- 4) Pulse/continuous
- 5) Audio mute

### Connections

- 1) Connection mode socket.
- 2) Connection mode earth socket.

### Audio indications

- 1) Audio feedback on button press.
- 2) Audio frequency drops to indicate a good connection.
- 3) Audio frequency on induced mode changes with power level.
- 4) Audio output pulsed to indicate pulsed mode.
- 5) Low battery indication.

### Display (SG-V)

Multisegment LCD indicating the following:

- 1) Frequency.
- 2) Pulse / Continuous signal.
- 3) Output level.
- 4) Battery condition.
- 5) Output current bargraph - connected/induced.
- 6) Speaker mute.

### Output

33kHz

### Batteries

4 x 'D' cells (LR20)  
Typical life (guide) 40 hours.

### Weight

3.0 kg (including batteries)

Moisture/Dust resistant to IP65.

## signal clamp

- 1) Spring loaded jaws
- 2) 75mm or 100mm diameter
- 3) Robust construction



## Sonde

- 1) Waterproof robust construction.
- 2) Operating frequency 33kHz continuous.
- 3) Range (guide) 5 metres.
- 4) Dimensions  
38mm diameter, 102mm length.
- 5) Fitting M10, rod adaptors available.
- 6) Battery 1 x AA (IEC type LR6)
- 7) Typical battery life (guide) 50 hours.



## CS880 Metal Cover Locator

- 1) Heavy duty control box
- 2) Sealed separate battery compartment
- 3) 8 x AA clip in battery pack
- 4) Waterproof highly robust search coil
- 5) Twistlock stem length adjustment
- 6) Comfortable hand grip with arm rest
- 7) Fascia mounted loudspeaker with socket for optional headphones
- 8) Collapsible stem, protective carry bag available
- 9) Push button controls and LED panel indicators
- 10) Moisture/dust resistant to IP65



Specification and labelling subject to change without notice.

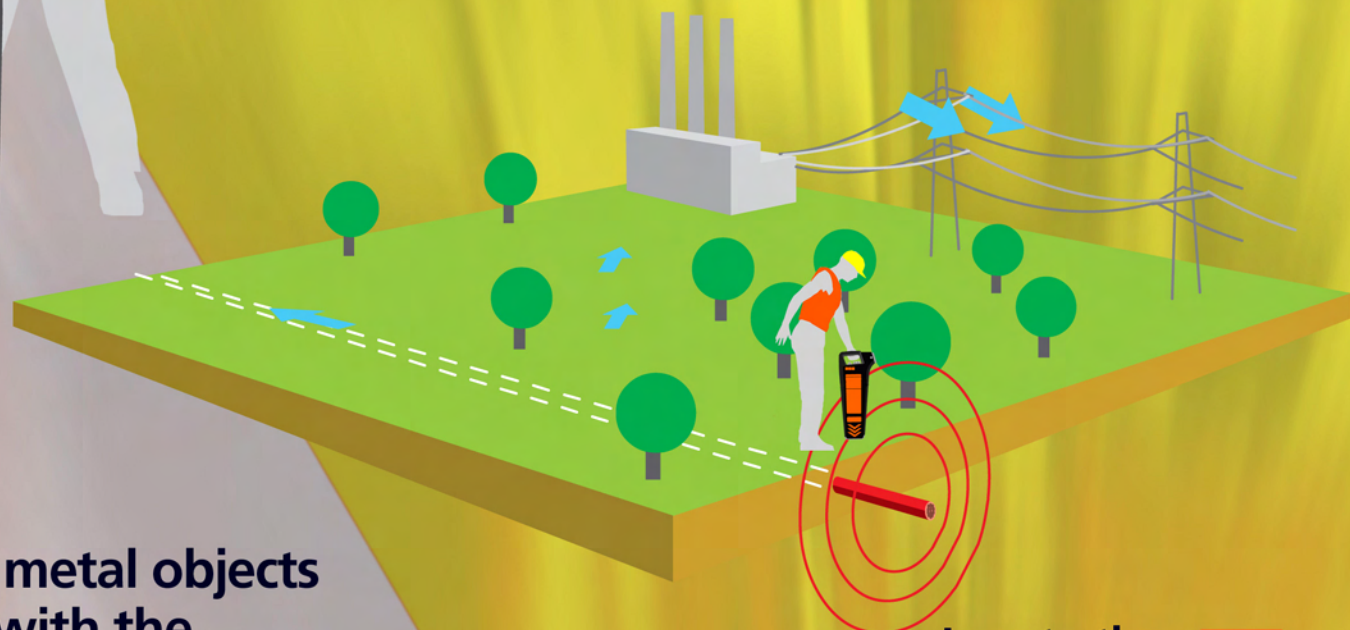
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# C.SCOPE

## Cable Avoidance Tools



### Find metal objects fast with the C.Scope CS880 cover locator

The CS880 is a low cost solution to the problem of finding lost or hidden metal objects in the ground. Typical targets will be manhole covers and stopcock boxes covered by tarmac or earth, steel reinforcement rods in concrete road surfaces, metal pipes, valve heads, and buried fuel tanks. The C.Scope designed Induction Balance operating system provides maximum sensitivity to solid metal objects whilst ignoring the small metal clutter which causes false signals in cheap inferior metal detectors. A 'target-hold' facility enables the operator to trace out the shape and size of the located object - less time wasted uncovering the wrong target!



Locate the position of power cables using the Cable Avoidance Tool in Power mode

**P**

Locate a wide range of conductors, whether or not they are carrying current, using the Cable Avoidance Tool in Radio Mode

**R**

### Plastic Pipe Tracer

Use traceable rod connected to a Signal Generator to send a signal along a non-metallic pipe. 25 or 50 m.

The C.Scope Plastic Pipe Tracer is an economical solution to the problem of tracing routes of nonmetallic pipes and conduits. The unique design is flexible, highly robust and yet very small in diameter. Working in conjunction with a C.Scope Signal Generator, the Plastic Pipe Tracer is inserted into the pipe and a signal is sent either along the full length or just to the tip. The signal is traced using a C.Scope Cable Avoidance Tool operating in the 'Generator' mode.

Insert Tracer into open end of pipe



Use a transmitting Sonde to propel along a pipe - tracking its progress using the C.Scope Cable Avoidance Tool



Training courses are available to enable operatives to get the most from the equipment. A detailed operator tutorial can be supplied on CD-ROM

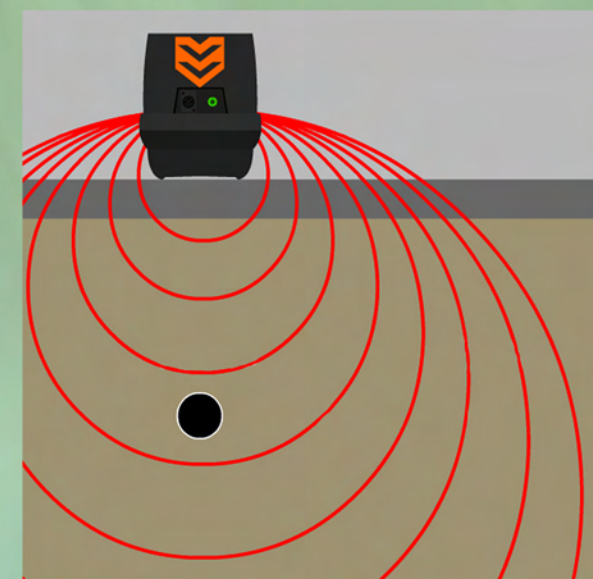


Connect the signal to a service using the Signal Clamp or Mains Signal Injector

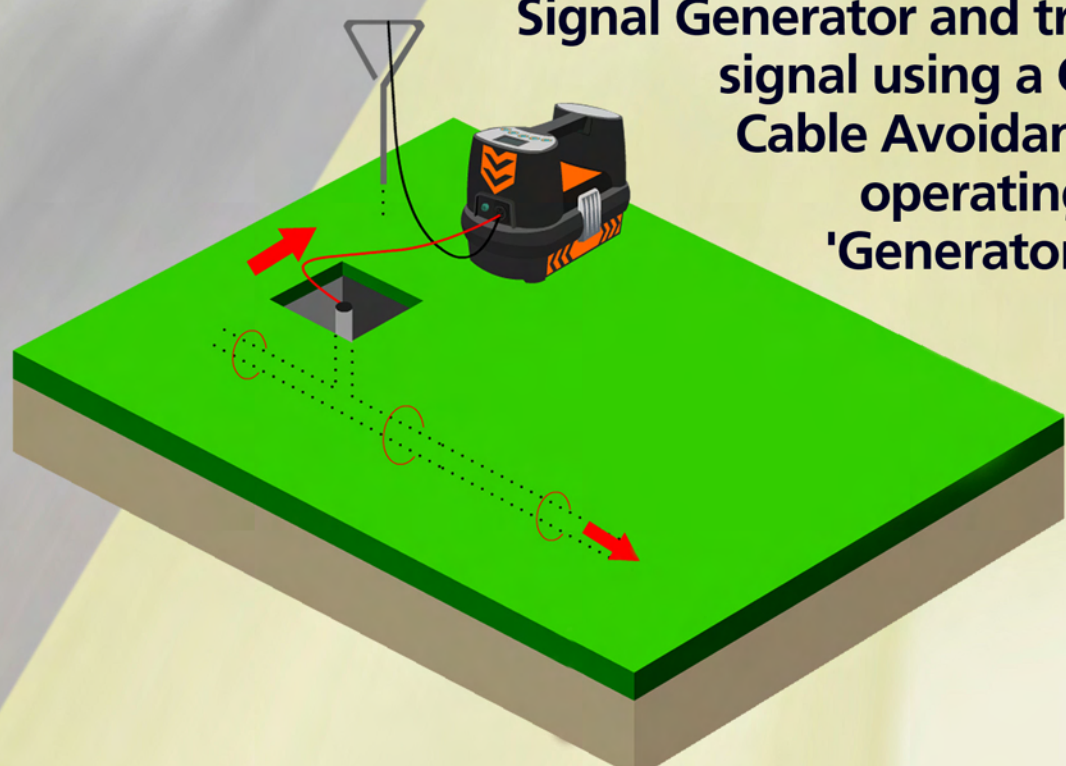
**G**



Couple the signal to a line by induction



Trace the route of specific services by connecting a C.Scope Signal Generator and trace the signal using a C.Scope Cable Avoidance Tool operating in the 'Generator' mode.



**USE C.SCOPE LOCATORS BEFORE AND DURING EXCAVATION ACCORDING TO HSE GUIDELINES**