

# Cable Avoidance Tools

**XD Cable Tracing (33KHz System)**

essential site equipment for locating  
and tracing underground services

**Cable & Pipe Locator**





# Site safety must be your **number one** concern.

Cable strikes result in death, injury, disruption. You are responsible for taking the necessary steps to minimise this workplace hazard. Follow the HSE recommendations for safe digging practice. Get some serious cable locating equipment on the job and make sure it gets used.

## **INSIST ON THE POWER, PERFORMANCE AND QUALITY OF CABLE AVOIDANCE TOOLS.**

These locators are from C.SCOPE, world famous specialists in underground location for over 25 years.

The **CABLE AVOIDANCE TOOL** is a full function, industry standard locator which every ground working operative will find familiar and easy to use.

Better by design, the Cable Avoidance Tool is rugged, lightweight and packed full of features: LCD METER, precision locating as standard. DETACHABLE LOUDSPEAKER held next to the ear in noisy work situations. FINGERTIP CONTROLS, adjust sensitivity and rapid switching between the locator's three operating modes. ADD a powerful range of accessories and the Cable Avoidance Tool becomes the main component of a versatile pipe and cable tracing system.



- 1. New Signal Generator SG-V with multisegment LCD. Enhances detectability of pipes and cables. Trace out the route of specific services. Use the Signal Generator to transmit an easily identifiable signal along a pipe or cable.**
- 2. Trace the line using the Cable Avoidance Tool.**
- 3. New Signal Generator SG-A**



TOTAL FOCUS ON UNDERGROUND LOCATION

## **CABLE AVOIDANCE TOOLS**

**Essential site equipment for locating and tracing underground services**

Backed up nationally by a network of approved sales and service centres. On-site or factory based operator training courses available. Detailed Operator Tutorial on CD-ROM.



# Performance. Precision. Information.

It's a tough world for today's hard pressed ground working contractor. You have to get the job done fast but not break pipes or cables. Now, in this demanding situation, powerful help is at hand. **The CABLE AVOIDANCE TOOL XD** provides ultimate information about underground services *before you dig*.

The CABLE AVOIDANCE TOOL XD has all the familiar user-friendly features of the standard model but delivers more power, more precision and more information from underground. The XD has a depth mode activated by a simple push-button.

Signal Generators SG-A and SG-V are designed to operate in conjunction with the Cable Avoidance Tools in a wide range of tracing applications. A 33kHz signal can be applied to a pipe or cable and traced along its length with the Cable Avoidance Tool. The Signal Generators are new for 2005, with smart robust styling, extra features and all round greater operating efficiency resulting in longer battery life.

When you need **MAXIMUM TECHNOLOGY** in your hand. When you want to find pipes and cables fast, make sure it's the **XD LOCATION SYSTEM. ESSENTIAL SITE EQUIPMENT FOR LOCATING AND TRACING UNDERGROUND SERVICES.**

- 4. Sealed, securely fitting battery compartment with spare battery holder.
- 5. Both locators feature LCD meter for visual read-out of signal and locator functions.
- 6. Detachable speaker - user replaceable if damaged.
- 7. Wear plate fitted to blade end - user replaceable when worn.
- 8. Fingertip controls. Twin wall construction keeps electronics damp and dust-free.
- 9. Easy push-button control of 33 kHz signal output. Greater precision available with SG-V model.
- 10. New robust lightweight case construction.





## 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



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

### Depth of detection (guide)

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

3.0 kgs (including batteries)

Moisture/dust resistant to IP65

## 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

3.4 kgs (including batteries)

Moisture/dust resistant to IP65

Specification and labelling subject to change without notice.

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