

# C.A.T. & Genny overview

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#### Avoiding danger from underground services



Detecting, identifying and marking underground services.

"Use of signal generators will significantly increase the accuracy of the service location".

# Electro Magnetic Location









Cable locators do not find cables.

They find magnetic fields.

No magnetic field, no locate.

























# **Models and Options**









Data Logging

**GPS Positioning** 

Shallow Service warning

Depth estimation

# Passive modes





Power Mode

4

Radio Mode



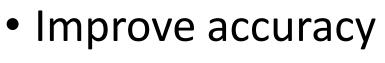
Avoidance Mode



#### **Active Location**







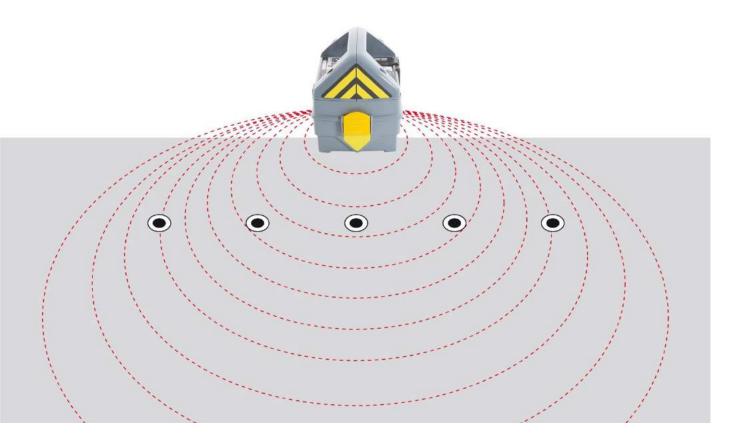
- Locate services which may otherwise be missed
- Depth Estimation



#### Induction Mode



#### Induction mode induces signal onto multiple buried services



- 10 metres between CAT
  & Genny
- Handle must be in line with services.

#### Connection mode



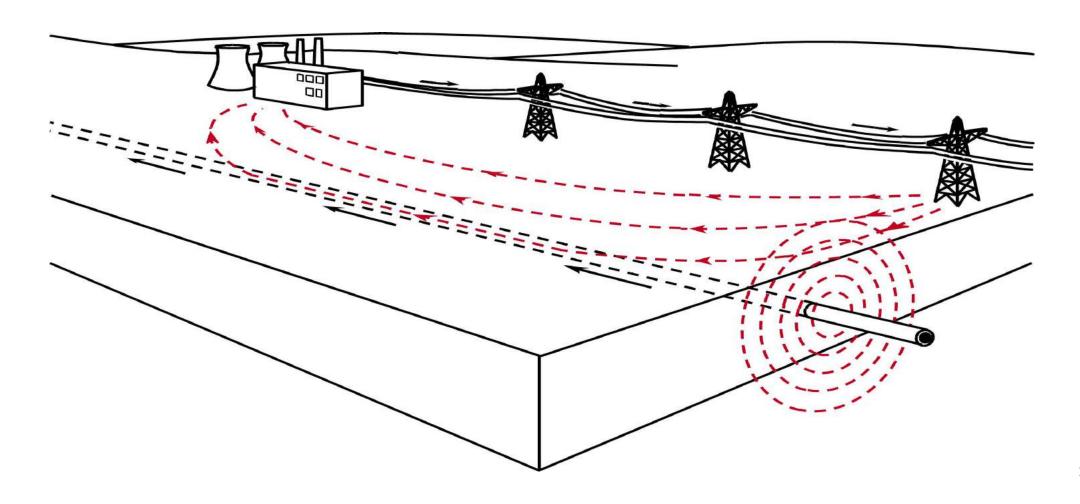




- Red lead connected to service.
- Black lead connected to earth.
- Optional signal clamp may also be used.
- Do not connect directly onto live services!

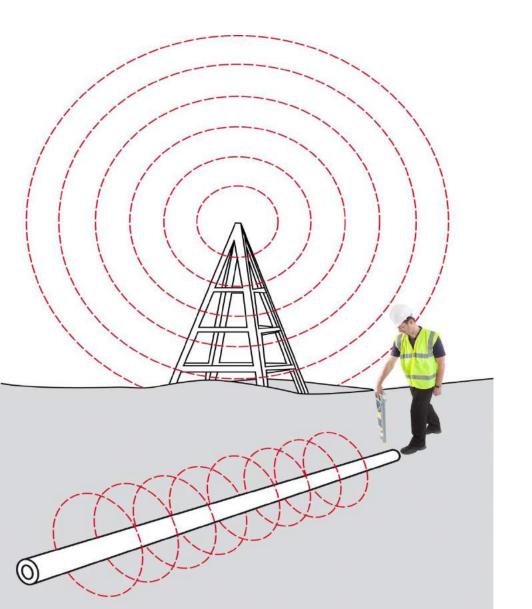
# Ground return currents





### Radio signals





- Radio and Power rely on passive signals which can be unreliable.
- Objects above ground such as fences and barriers can cause interference.
- Signal may be distorted.

#### Limitations of use



#### It is important to understand the limitations of this equipment.

- Non Metallic services Plastic, drainage, fibre optic etc.
- Power cables under no load such as street lighting.
- DC, balanced or un-earthed pot ended cables.
- Deep cables.

Always dig with caution!



# Locating non metallic services

- Non metallic services may be traced using a sonde or plastic pipe tracer.
- There are various types of sondes for different applications

