



Warning Always read the User Manual.

(This can be downloaded from: www.cabledetection.co.uk/downloads)

EziROD



What is it for?

Tracing and finding blockages in small diameter non metallic pipes and ducts. You can use it in two ways. Firstly you can trace the full length of its cable or secondly you can trace the tip of the cable using "sonde mode".

Why do I need it?

- To locate and trace non metallic services up to 80m, which cannot otherwise be directly detected using electromagnetic detection technology
- If an inaccessible section of pipe is damaged and requires locating and repair
- To find the path of a pipe that needs to be traced
- To confirm the depth of a pipe
- Small diameter pipes and ducts in the range 50 to 300 mm diameter require highly flexible and compact size equipment to negotiate bends, tees, obstructions and other fittings. Other pipe tracing equipment such as the Sonde fitted to plumbers drain rods or fibreglass Cobra rods are often too large or inflexible for these applications

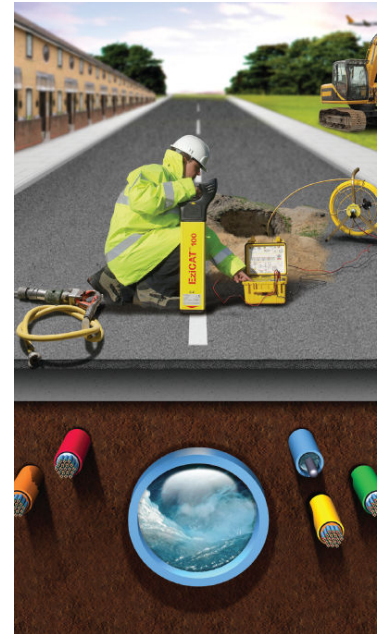
What else do I need to use it?



Chose the required EziROD length, 50m is standard, 30m, 80m or custom length to 120m by special request

How do I use it?

- The EziROD is used in conjunction with the EziTRACE signal generator and located using any EziCAT Locator.
- **Line Mode:** Connect the EziROD to the EziTRACE using the supplied connection lead; connect the crocodile clip at the end of the black lead to the EziTRACE end and to the grounded earth pin. Feed the EziROD into the pipe or duct being traced. Select the EziTRACE operating mode, 8 or 33 kHz to suit site conditions and use the EziCAT in the same way as for pinpointing, tracing and depth estimation of other metallic pipes and cables. Note that for depth reading in 33 kHz mode with EziCAT200, the accuracy of the depth reading will be reduced near the ends of the EziROD or near to bends or significant changes in depth. Readings should be made at least 5m from either end of the rod and at least 1m from any change in direction
- **Sonde Mode:** When locating the tip of the EziROD, connect the EziROD to the EziTRACE using the supplied connection lead; ensure the inline connection in the black lead is fitted. Select the EziTRACE operating mode, 8 or 33 kHz to suit site conditions. A special location 2 step method with the EziCAT should be used to accurately pinpoint the position of the tip both forward to back and left to right. This is fully described in the EziSYSTEM User Manual. Note that for depth reading to the EziROD tip in 33 kHz mode with EziCAT200, the depth reading is obtained by pushing and holding the depth key until the result is displayed.
- EziTRACE operating mode can be set to 8 or 33 kHz to suit the site conditions. It is usual that 33 kHz will give the best results as this signal couples with the ground over the short length of the EziROD in the pipe and gives a stronger signal. When used in conjunction with EziCAT200, depth estimation is possible to 3m in 33 kHz.
- When locating pipes in the vicinity of other buried services or with concrete REBAR then 8 kHz mode should provide more reliable and accurate results, although depth estimation with EziCAT200 is not possible, sorry!
- To reduce any effect due to the remaining coiled wire on the EziROD drum, which may contribute to reduced accuracy, it is recommended that the rod is positioned at least 2m behind the place of Locating and that at least 50% of the reel is unwound, either pushed into the pipe or laid on the ground behind the pipe access place.



How does it Work?

In the line tracing mode, an electrical circuit is formed between one of the EziROD wires inside the fibreglass rod inside the pipe, capacitive coupled to the ground, and the EziTRACE earth pin. The EziTRACE signal flows along the EziROD and through the ground back to the earth pin.

Due to the short length of EziROD in the ground, use of the 33 kHz mode will result in a stronger and more reliable tracing signal. The audio tone change indicator in the EziTRACE may not change to continuous output if the output signal is weak; this is not normally a problem due to the short tracing distance.

If an improved signal is required then check the earth pin grounding or pour on some water if the ground is very dry to improve the connection. Alternatively, flush some water through the pipe to improve the capacitive coupling of the EziROD to the surrounding pipe and ground