

## Quick Locating Guide for Radiodetection RD8000 and RD7000

- Use Peak & Null: Compare the bar to the arrows to determine accuracy; trust the peak bar the most. 
- “Max V” on “High” can increase the signal without increasing the frequency potentially increasing errors.
- Automatic depth measurement: Rotate the compass to straight up and move side to side above the cable or pipe.
- Verifying depth accuracy: If the depth reading changes by the amount that you lift the locator, then it is accurate.
- Place ground rod with no utilities between it and your utility.
- Double ended connection: For challenging locates, connect both leads from the transmitter with an extension lead to the utility.

### Choosing Frequencies

Match the locator and transmitter frequencies. Use the lowest frequency that is strong enough. Lower frequencies are potentially more accurate. Higher frequencies are stronger. Check the mA display on the transmitter if direct connected to determine signal strength: 10m A minimum, 20 – 30 mA typical. Common frequency choices:

- Power cable with clamp: 33 Khz
- Metal water mains: 33 Khz
- Locatable rodders: 33 Khz
- Tracer wire: 512 hz if grounded on other end, 33 Khz if not grounded on other end



### Cable fault locating:

1. Locate the cable
2. Connect black lead to ground stake and red lead to faulted conductor
3. Select transmitter frequency with A-frame picture
4. Connect the A-frame cable to the locator and turn on locator.
5. Hold **green** spike in front of the locator and follow the arrows.
6. Check the whole cable. The numbers indicate the severity of the fault.



### Sonde / Camera Locating:

1. Choose the same frequency as the sonde with sonde mode.
2. Hold bottom of locator parallel to pipe or conduit.
3. Locate minor and major center peaks



### Passive Frequencies

- Search then search again at 90 degrees to first pattern
- Power: locates most power cables with a load and utilities near power lines.
- Radio: finds most utilities.
- PASSIV: Power and Radio combined (RD8000 only)
- CPS: Locates most metal gas pipes, some water mains (DL, RD8000 only)



