vScan Sonde Locating Quick Guide V1.1

Sonde Introduction

Sondes are small self-contained battery powered transmitters that are propelled through pipes and ducts and can be located on the surface by a sonde locator or buried utility locator with a sonde mode. Sondes are also built into other products such as a sewer camera, robotic crawler camera, or attached to a jetter hose. Low-frequency versions (512Hz/640Hz) can transmit through some metallic pipes like cast iron pipes, which is why they are frequently used with sewer inspection cameras.

Sondes come in a variety of sizes which ties into how deep they can be located. Different frequencies are available which allow sondes to be located in metallic or non-metallic pipes and ducts.

The vScan receiver has sonde frequencies of 33kHz, 512Hz and 640Hz.

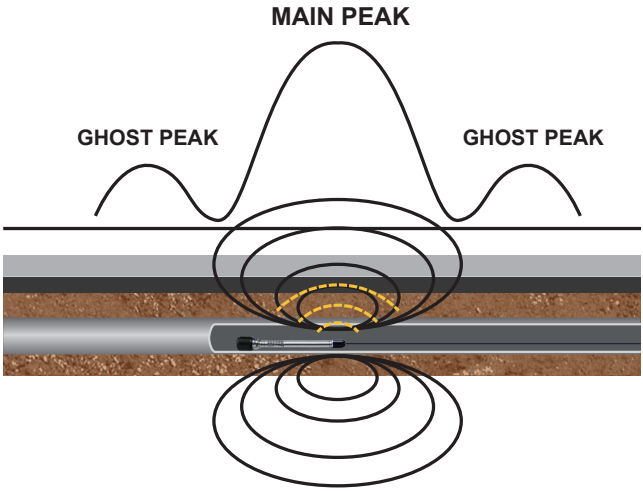
Sonde Range			
Model	**Depth and Dimensions**	**Frequency**	**Battery Type**
D18 Sonde			
	Depth: 15ft / 4.5m 0.72" x 3.2" (18.5 x 79mm)	33kHz	2 x SR44 Button cells
D38 Sonde			
	**Depth:** 16ft / 5m 1.4" x 5.2" (38 x 132mm)	33kHz	1 x AA Alkaline
D64 Sonde			
	**Depth:** 26ft / 8m 2.5” x 7.1” (64 x 179mm)	33kHz	1 x 9 Volt Alkaline
D23 Sonde			
	**Depth:** 22ft / 7m 0.90" x 17.3" (23 x 440mm)	512Hz 640Hz	1 x AA Alkaline
Please visit our website for full specifications on our sonde range.			

Tips for locating sondes

1. Work as a team with one person on the locator and the other working the camera or duct rodder.
2. When working with sondes always use a fresh battery.
3. Use a radio system or mobile phone for communication.
4. Work in increments of 10 to 20 feet (3 to 6m). Locate, mark, move and repeat.

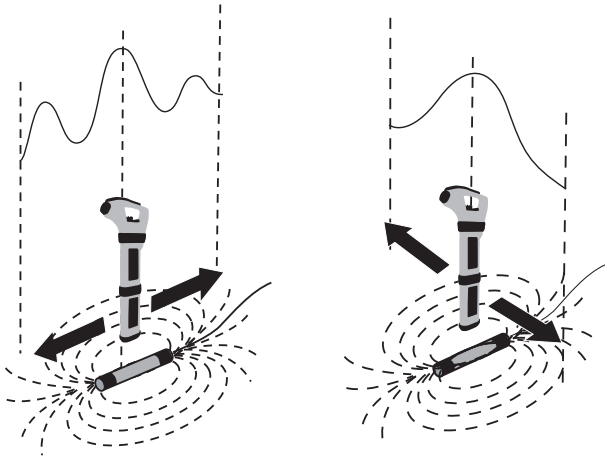
Locating sondes with a vScan Receiver

The sonde signal pattern consists of three distinct peaks. A small peak, a large peak, followed by another small peak with two “Nulls” between the peaks. The sonde is located under the center of the large peak, also known as the Main Peak.



Locating Sondes with the vScan Receiver:

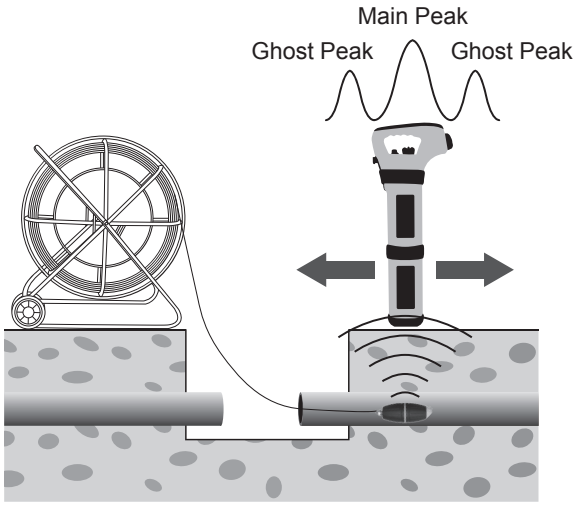
1. Turn on the vScan Receiver.
2. Use the mode paddle to enter the Sonde mode. The Sonde  icon will now be visible on the screen.
3. Position the vScan above the Sonde as indicated below: (The rotational orientation of the receiver is 90 degrees to that used when line locating)
   When locating sondes, we will locate the sondes forward/backward position and then locate the left/right position.



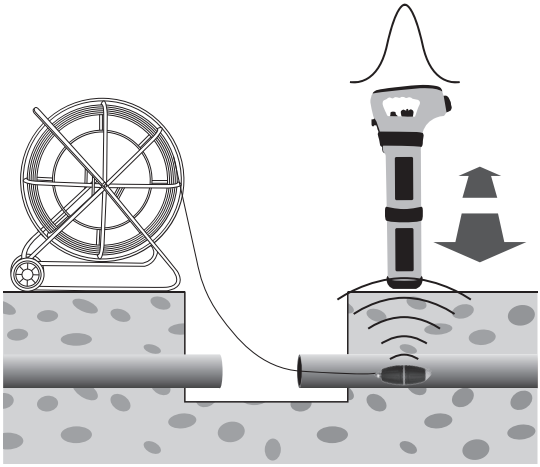
Forward/Back Locate **Left/Right position Locate**

4. Adjust the sensitivity control so that the bar graph reads approximately 75%.
5. Now move the vScan forward and back to detect the largest signal.

   You will also notice that there will be a “ghost signal” in front and behind the Sonde. This is normal and characteristic of locating Sondes.



6. Now sweep left and right over the Sonde to obtain a second peak. Note that there are no ghost signals when sweeping left to right over the Sonde.



7. Now push the Sonde in a couple of meters and repeat the above to mark the pipe or duct route. Keep the insertion intervals small *(2 to 3m)* to ensure the Sonde is not lost.

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