

How do I determine the maximum spacing between Receiver and Transmitter?

The maximum separation will vary from one survey area to another depending upon the near surface geology. It is important to determine maximum spacing between Transmitter and Receiver to avoid collection of questionable data.

Lay out a meter interval measuring tape in the survey area. Attach cables to the receiver and place it near the end of the tape with the receiver aft dipole cable end just at the end of the measuring tape. Attach cables to the transmitter and place it along the tape with the end of its front dipole cable at 1 dipole length spacing from the end of the tape near the receiver.

Connect the OhmMapper console, console cable, optical wand, and battery together. Connect the optical wand to the Receiver front dipole cable. Turn on the Transmitter, Receiver, and console. Choose OhmMapper Test from the System Setup->OhmMapper Test menu.

Observe the readings after the Receiver has locked on to the Transmitter.

Move the Transmitter away from the Receiver by one dipole spacing intervals while observing the readings on the console. Stop at each spacing interval and determine whether the observed data are noisy.

When the data become noisy, you have just moved the Transmitter 1/2 dipole spacing farther than the maximum for the local conditions.

<http://support.geometrics.com/kb/questions.php?questionid=21>