

Sewer Line Rapid Assessment Tool (SL-RAT)

Quick Start Guide

(refer to Owner's Manual for detailed instructions)

Step 1. Turn on both RX and TX units

Turn on Receiver (RX) and Transmitter (TX) unit. This should be done outdoors, with a clear view of the sky (GPS synchronization occurs during this step). Both units will go through a series of screens while synchronizing data with each other and acquiring GPS coordinates.



Step 2. Enter Operator ID on both RX and TX units

You can increase or decrease the number by pushing either the LEFT or RIGHT buttons. Push the CENTER button when done. Do this on both the Receiver (RX) and Transmitter (TX) unit.



Once completed, you should see the following screen:



Step 3. Place RX and TX units over a manhole

Remove manhole lids at both ends of a connected sewer pipe segment. Place the RX unit over the manhole at one end, and the TX unit at the other end.

Step 4. Prepare RX unit for pipe inspection

On the receiving unit, push the CENTER button ("START TEST") to setup a test. You should see the screen below.



If you agree with the GPS Estimated Pipe Length, then push the CENTER button ("START TEST") to continue. (If you want to adjust the pipe length, push the RIGHT button ("CHANGE") to cycle through various pipe lengths, then push the CENTER button).

You should see the screen below:



Do not press the CENTER button ("START RX") until the transmitting unit (TX) has started (Step 5). Signal to the operator with the transmitting unit that you are ready for them to start the transmitter.

Proceed to the next page.

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Step 5. Start TX unit speaker, begin listening with RX

On the transmitting unit, push the CENTER button ("START TEST").



You will see the following screen:



Push the RIGHT button ("START") to begin the test. Once the Transmitter has started (you will hear a series of tones), signal to the operator with the receiving unit to begin listening with the RX unit).

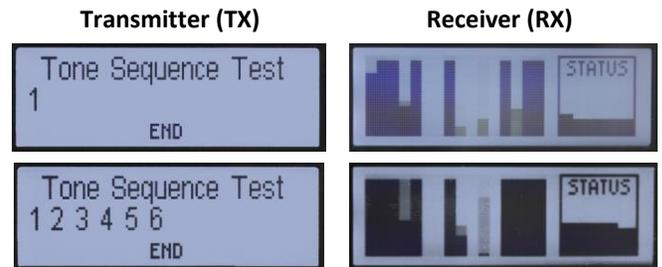
On the Receiver, push the CENTER button ("START RX") to begin listening.



You should ALWAYS start the transmitter before the receiver!

Step 6. Wait for test to complete

You will see the following screens while the test is running:



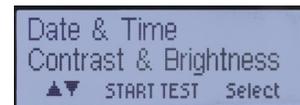
The transmitter will go through a series of tones 6 to 12 times. You can stop this at any time by holding the CENTER ("END") button. Once the test is completed, the RX unit will show some feedback regarding the pipe condition ("GOOD", "FAIR", "POOR", "BLOCK", etc.).

You will see the following screens when the test is complete:

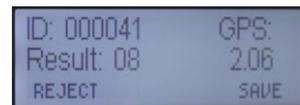


Step 7. Prepare for next test

Transmitting Unit: Push the CENTER button ("RETURN"). You will see the following screen:



Receiving Unit: Push the CENTER button ("RETURN"). You will see the following screen:



Record the Record ID and the Result in a manual log. If the measurement was valid, push the RIGHT button ("SAVE") to complete the test.

You have now completed an acoustic pipe inspection using the SL-RAT. Leave both the devices turned on, and proceed to Step 3 to perform a measurement on the next pipe segment.