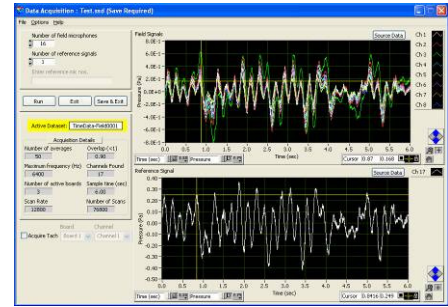




## DATA ACQUISITION

SenDC has several features that enhance the data acquisition process. For example, it allows simultaneous acquisition of pressure data from the array and reference microphones, and the reference microphone may either be part of the array or a separate microphone. You can also set high and low limits on the acoustic pressure measured on each channel and associate channel number with specific coordinates acquired earlier in the process. Finally, SenDC can display on-screen the acquired data for both the array and reference microphones after it has acquired the data.



## UTILITIES

Three utilities are included with SenDC:

1. **Visualize Measured Pressure** converts the data to a format that allows you to more easily check it for errors before reconstructing it.
2. **Time-Data Viewer** lets you call up and view previously acquired time-domain data.
3. **Microphone Calibration** is used to calibrate array microphones using a standard source. Eight microphones can be calibrated at a time to speed up the calibration process

## SPECIFICATIONS

### System Requirements

- IBM PC or equivalent with a Pentium 2GHz or higher processor
- Windows 98 or higher
- XGA 1024x768 resolution (we suggest using a higher resolution monitor for better graphic interfaces)
- 512 MB of RAM (1-2 GB suggested; higher the memory, better the performance)
- 200 MB of free disk space for installation. More disk space is required for data storage depending on the use and data management practices
- CD-ROM drive
- Mouse or other pointing device

### Data Acquisition Systems Supported

- National Instruments NI PXI 4496 24-bit resolution ADCs with 113 dB dynamic range and 204.8 KS/s for each channel National Instruments NI 9234 24-Bit IEPE with 51.2 kS/s per Channel
- National Instruments NI PXI 4472B 24-Bit, Vibration-Optimized Dynamic Signal Acquisition Module, with 110 dB dynamic range and 102.4 KS/s for each channel
- Larson Davis DSS system 24-Bit, and 102.4 KS/s for each channel
- Acoustic Camera Data-Recorder mc dRec 24-Bit and 192 KS/s for each channel

### 3D Coordinate Digitizers Supported

- 3D Creator by Boulder Innovators Group (BIG)
- Immersion MicroScribe G2
- Freepoint 3D Sonic Digitizer

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