

What's the Best Way to Analyze Speech and Other Non-Stationary Signals?

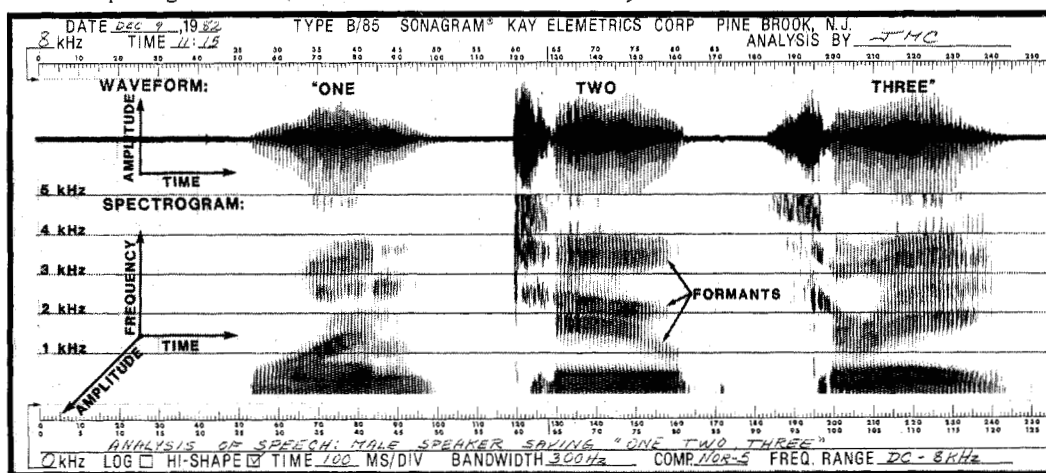
Use an analyzer designed for these signals...

The Digital Sona-Graph® model 7800 is a DC-32kHz spectrum analyzer designed for the analysis and display of non-stationary signals (such signals include speech, Doppler shifts from Ultrasound and telemetry signals, sonar and radar returns, animal sounds, music, heart sounds or any sound that has frequency characteristics which change over time). The complex nature of these signals requires an analyzer which incorporates the features of a sound spectrograph, a waveform printer, signal splicer/editor and a spectrum analyzer.

SOUND SPECTROGRAPH

The 7800 captures and stores the input signal to a real time rate of 32kHz in a large 128K word (each word is 11 bits wide) solid state memory (RAMs). The 7800 can accept single or dual channel input. Once stored, the signal(s) can be analyzed (to a 0dB dynamic range), displayed and printed in many ways. The spectrographic display is most revealing for non-stationary signals which are characterized by spectral frequency changes over time. This 3-D display (amplitude vs. frequency vs. time) is shown to the right.

- Print Resolution:
1000 (H) X 400 (V)
X 23 Grey Scale Levels



SIGNAL SPLICER/EDITOR

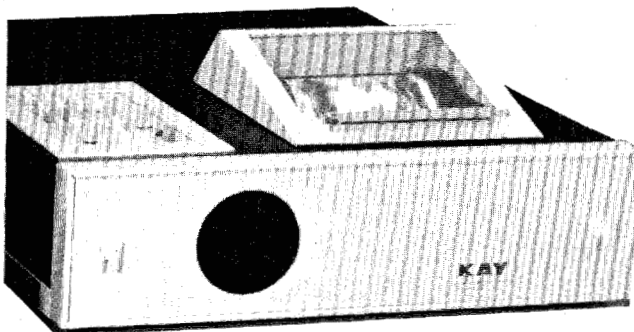
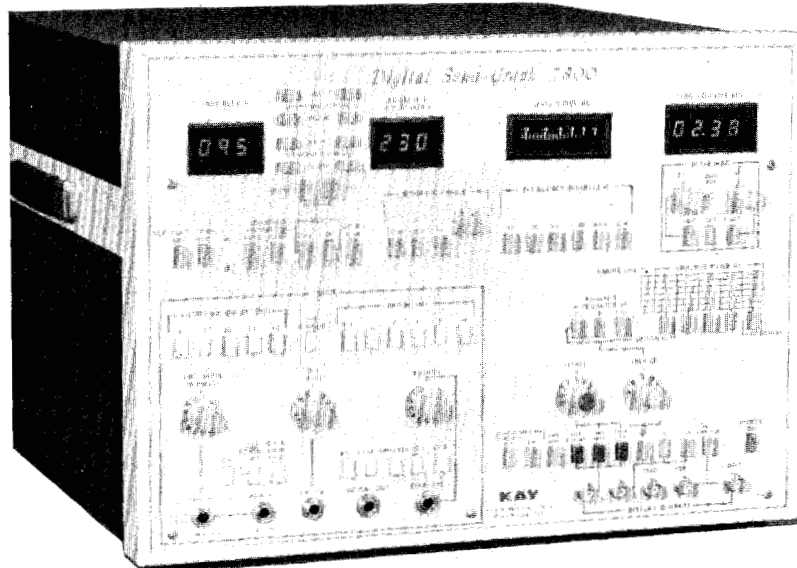
The large 128K word (by 11 bit) memory can record and store 12 seconds (in the 8kHz range) of input signal. The splicer/editor feature lets the user listen to or remove, selected portions of the audio signal or splice separate segments together.

AUDIO WAVEFORM PRINTER

Print the entire stored waveform or just selectively expand portions of the stored signal. Unlike expensive high speed oscillographs, the 7800 makes it easy to select only certain segments for display (see the sample Sonagram® above). A rapid yet significant transition can be easily isolated and viewed in detail. The waveform can also be printed with the corresponding spectrogram.

APPLICATIONS

Speech, Bioacoustics, Doppler Shifts, Heart Sounds, Communication Systems, Music, Radar & Sonar Returns.



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