



## Turn your PC into a powerful speech analysis system.

The *Computerized Speech Lab (CSL™)*, Model 4300 is the most powerful computer-based system available for speech acquisition, analysis, editing and playback.

### Complete System

CSL comes complete with all hardware (except the computer) and comprehensive software and works on an IBM® PC AT or compatible personal computer. The software operates in a "windows" type environment using pull-down menus. The hardware includes two input channels (each at 50 kHz sampling at 16 bits), digital anti-aliasing filters, a 40 MHz digital signal processor and digital output filters.

### Designed for Speech Professionals and Researchers

CSL's software has an extensive array of speech analysis capabilities which are performed with impressive speed because of the two on-board DSP chips. Spectrograms, power spectrum analysis, LPC formant traces, pitch extraction, amplitude traces and waveform analysis can be viewed quickly and simultaneously on a single screen. Signals can be listened to, edited, filtered, annotated with IPA characters or stored for later analysis. Extracted measurements can be conveniently "logged" for statistical analysis.

### Flexibility for the Clinic, Research Lab and Classroom

Additional software is available depending on your specific application. For example, voicing parameters (jitter, shimmer and harmonic-to-noise ratio) provide clinicians with quantitative data on their patients' performance. The LPC synthesis program provides linguists, speech scientists and their students with powerful editing capabilities including formant frequency, bandwidth, pitch and temporal modifications. New programs are under development to further enhance CSL's capabilities. The CSL is also an ideal companion for Kay's DSP Sona-Graph™ speech workstation, Model 5500.

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To find out more about the CSL.

## KAY

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# Journal of the International Phonetic Association

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### References

- CHAO, Y.-R. (1930). A system of tone letters. *Le Maître Phonétique* 30, 24-27.
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