



SpeechLab™

SpeechLab™ is a dedicated computer designed exclusively to provide a powerful versatile set of tools for the practicing Speech-Language Pathologist. SpeechLab's many functions not only facilitate standard therapy techniques, but go beyond to allow a broad range of specialized and creative applications. Just as important, the internal design and expandable architecture of SpeechLab™ can provide the user with a very powerful portable speech laboratory. Fast, state of the art, 16/32 bit microprocessor technology is used to allow real-time manipulation and measurement of speech.

SpeechLab™ is a small, light weight, portable desk-top unit measuring 4.5" H X 14" W X 14" D, and weighing only 10 lbs. The front panel contains a 40 character LCD display and is sloped for optimum viewing. Two LED indicators show the monitoring status of the two head phone/microphones that plug in to the front panel. The rear panel contains the on/off switch, fuseholder, socket for power cord, tape out phono-type connector, response button connector, and keypad connector. The system also includes 2 professional quality headphone/microphones and a 12-button hand held keypad.

Every effort has been made to make SpeechLab™ easy to operate. Instead of a confusing front panel with many dials, meters, etc., all controls are internal. You converse with SpeechLab™ entirely through the LCD display and the 12-button hand held keypad.

Currently, SpeechLab™ implements 18 functions. New ones will be added over time in the form of updates or options as they are developed and as feedback from therapists suggest useful functions.

SpeechLab™ incorporates a versatile audio monitoring system that provides individual adjustments of headphone/microphone and playback levels. This can be used as an auditory trainer.

SpeechLab™ functions include digital recording modes that allow instant record and playback of speech for comparison and review of words or phrases. It can even playback a word or a phrase automatically with no intervention.

SpeechLab™ offers a programmable audio delay of up to 21 seconds in 1 millisecond steps making it the ultimate DAF machine. In addition, a complete recording of everything that has transpired in the last 21 seconds is available at the touch of a button.

SpeechLab™ includes a real-time pitch changer that is fully adjustable in 150 steps up one octave or down one octave. This allows a client to hear their voice shifted up or down in pitch as they speak.

SpeechLab™ calculates and continuously displays fundamental frequency, providing instant numerical feedback.

Pauses in speech can be detected and counted by the Gap Detector. This function looks for gaps of silence and generates a prompting signal either visual or audible and makes a numerical count of the pauses. The time and amplitude of the gaps are programmable.

SpeechLab™ also has a sinewave (tone) generator with adjustable amplitude and a programmable frequency range of 20 Hz to 6000 Hz in 1 Hz steps.

SpeechLab™ includes a special internal memory to save parameter settings if the unit is turned off or moved to another location.

The capsule descriptions above, while not intended to go into great detail about operation or application, should give an idea of the power that SpeechLab™ brings to speech therapy. Most of the functions arise from simple concepts just waiting for the level of technology needed to implement them, such as the recording functions. Others are derived from the type of experiments published in professional journals, that were initially done with custom one-time set-ups and until now defied implementation in the setting of practicing speech therapist.

SpeechLab™ is offered exclusively by Cavaliere Music and Electronics

Send inquiries to: P. O. Box 1681, Lake Worth, FL, 33460

or call: (407) 588-3267