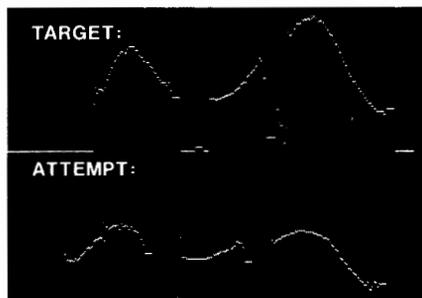


The Visi-Pitch: A Clinical Tool

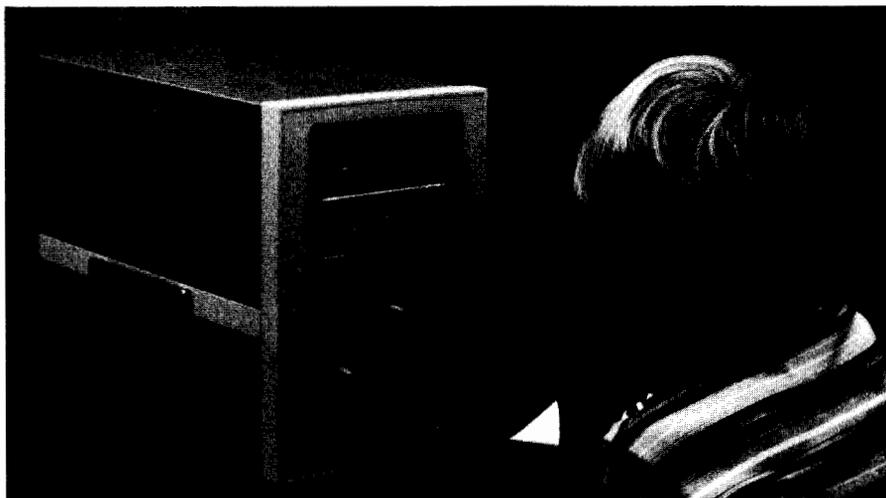
The Visi-Pitch[®], model 6087DS is a clinical tool designed to help speech-language pathologists do their job more easily, productively and professionally. The Visi-Pitch[®] provides speech-language pathologists, educators, language lab directors, technicians, and researchers with an effective biofeedback tool to analyze speech and voice characteristics.

The Visi-Pitch[®] extracts and displays the fundamental frequency, (from 50 to 1600Hz) and the amplitude envelope of the signal. The Visi-Pitch[®] displays the extracted cycle-to-cycle fundamental frequency (each glottal pulse is displayed) from the complex speech waveform. The Visi-Pitch[®] will present pitch and amplitude simultaneously or independently on the display screen.

The Visi-Pitch[®] helps the professional use time more effectively to teach and train the use of speech and voice. The acoustic information is displayed instantly to facilitate non-cognitive feedback and training.



The Visi-Pitch[®] increases client's understanding of abstract principles by presenting a concrete visual representation. This representation also serves to motivate the client because the vocal parameters have become measurable and more tangible. The screen is capable of either half or full screen display. When using the split mode the user is able to compare one signal stored on the upper half of the



screen (the target vocalization) against another signal stored independently on the lower half of the screen (the attempt). Full screen capability is suitable when a larger display is more appropriate.

Whether it is in a classroom, clinic, language lab or private practice the light weight construction of the Visi-Pitch[®] permits it to be easily transported from room to room. For classroom demonstration the Visi-Pitch[®] can be connected to a TV monitor or video recorder.

The Visi-Pitch[®] 6087DS is the successor to the Visi-Pitch[®] 6087 which was similar in concept except that the 6087 used a Tektronix[®] scope (modified by Kay) as the display. The 6087DS incorporates a display designed and manufactured by Kay.

APPLE[®] COMPUTER INTERFACE

Software has been developed to easily interface the Apple II Plus[®] microcomputer with the Visi-Pitch[®] so that the Visi-Pitch[®]/Apple[®] system can be used for the analysis and biofeedback of speech and voice characteristics. The extracted pitch and amplitude can be manipulated and reconfigured by the Apple[®]. (For

example the program will calculate pitch perturbation). Traces can be stored for later comparison and programmed instruction can be implemented by the user. Consult the company for more information.

APPLICATIONS

Kay has an extensive applications manual describing how the Visi-Pitch[®] can be used for many applications including sample exercises for various speech/voice disorders and second language training. A video tape presentation entitled "The Visi-Pitch[®] in a Clinical Setting" is also available upon request. Other applications include:

- Speech/Voice Disorders
- Singing and Music
- Speech Synthesis and Word Recognition
- Teaching and Research
- Speech of the Hearing Impaired
- Second Language Teaching

To discuss the applications of this instrument to your work or for more information call Paul Arcell M.A., CCC SP/L, (201) 227-2000 extension 111.

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(201) 227-2000
TWX: 710-734-4347

*Apple[®] is a trademark of Apple Computer, Inc., Visi-Pitch[®] is a trademark of Kay Elemetrics Corp.