Welcome to DVSI

Digital Voice Systems, Inc. (DVSI) is recognized as the world leader in the development and implementation of low-bit-rate, high-quality speech compression software and hardware products. DVSI specializes in voice coding solutions that have been successfully integrated by equipment manufacturers throughout the world.

DVSI attributes its phenomenal success to producing superior vocoder technology that combines innovative design with an array of advanced features. DVSI’s AMBE™ Vocoder Technology is fundamentally different than traditional linear prediction speech models. This Multi-Band Excitation speech model clearly reproduces the wide variations found in human speech and is inherently robust to bit errors and noise.

The technology was an outgrowth of research performed at the Massachusetts Institute of Technology (MIT) in the early 1980s. The result of this research was developed, significantly improved upon and then patented by DVSI. Numerous independent evaluations have shown that DVSI’s patented vocoder technology can outperform competitive systems operating at twice the data rate or more. This level of performance has lead this vocoder to be the algorithm of choice in low-data-rate communications systems.

The AMBE™ voice compression algorithm easily integrates with the most popular fixed-point and floating-point Digital Signal Processor (DSP) families. Efficient software / hardware implementations are available through license agreements and/or as integrated single-chip solutions, PC based codec boards and voice codec units. DVSI’s hardware and software speech compression solutions meet the most stringent requirements and are ideal for applications in wireless communications, voice over IP and other mission-critical communication systems.

With corporate offices in Westford, MA and Nashua, NH, DVSI has been committed to the continuous advancement of speech coding technology and systems since 1988.