Key Features

- · **Professional Spectrograms**
- · **Windowing Options**
- · **Supports standard sound cards**
- · **Control Over Frequency Resolution**
- · **Provides a Cost Effective Solution**
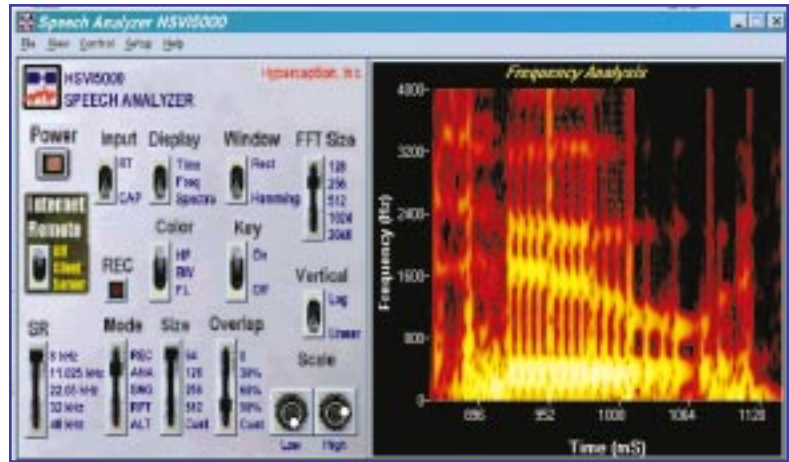- · **Fast Display Update Rate**

Imagine the quick information about your signal provided by such a system. For people engaged in system identification, pattern classification, recognition problems, speech, telecom and many more applications, this tool is able to deliver quick accurate analysis to help understand some of the important features and problems in their signal analysis applications.

There are many choices for DSP/acquisition hardware targets available for use with the HSVI5000 and HSVI5100 virtual instruments. Supported hardware ranges from standard sound cards to higher-performance DSP hardware. The maximum bandwidth and data resolution is dependent upon the choice of hardware being used. Please contact Hyperception for information on supported hardware.

Internet Remote

*For remote test and measurement applications, a built-in internet connectivity capability is included. This allows any two virtual instruments connected by the internet, or internal network, to talk with each other. Simply switching one of the Internet Remote front panel switches to 'Client', and the other to 'Server', allows the client instrument to take measurements from the signal sourced by the server instrument. **This feature is standard on all Hyperception Virtual Instrumentation software!***

VIDSP Instrumentation Series
Virtual Instruments with the power of DSP

HSVI5000
Speech Analyzer

IAN

Real-time Speech Analyzer for professional spectrogram analysis

The Speech Analyzer from Hyperception is a low-cost alternative to dedicated spectrum analyzers and allows for easy interface to standard desktop applications

Overview

The Hyperception HSVI5000 Speech Analyzer provides professional spectrographic frequency domain measurements found in more expensive systems - at a fraction of the cost! Hyperception's Speech Analyzer is a combined Software/Hardware solution for real-time frequency domain analysis using a standard PC. This low-cost system allows the user to obtain a wealth of information regarding the frequency content of a real-world signal. This signal might represent speech, vibration, ambient noise, modulated signals (such as modems, etc.), or virtually any signal.

This spectrum analyzer is a professional virtual instrument that has been designed to work with a wide variety of DSP/acquisition hardware. This allows you to choose a target hardware card which best fits your measurement requirements. By using high-performance floating-point DSP/acquisition hardware or low-cost standard sound cards, the HSVI5000 offers real-time frequency domain analysis at a very affordable price.

Realistic Interface

The photo-realistic front panel display allows for convenient selection of the instrument controls. Frequency measurements can be selected to be displayed as log or linear magnitude data. Bandwidth can be user selected and is dependent upon the target hardware card selected for use with the HSVI5000. Frequency resolution can be adjusted by a toggle switch that controls the FFT size implemented by the Speech Analyzer. Waveform display is automatic and provides for a fast screen update rate. Scaling knobs allow for selection of low and high amplitude display settings.

Features

This instrument is capable of running in real-time (as fast as the host system permits), but also supports a record first, then analyze method for superior spectrographic displays, even on relatively slow host systems. The framesize and overlap may be adjusted during analysis, and windowing options include Hamming and rectangular. The HSVI5100 contains all capabilities of the HSVI5000, but also addresses the need for applications that require two-channel input.

Hyperception
The Leader in DSP

Product Document: HMVI5000

Speech Analyzer   HSVI5000

FEATURES AT A GLANCE

Display Selection
Select from either time, frequency, or spectrographic display

Window Selection
Select from either rectangular or Hamming Window

FFT Size
Allows for control over level of frequency domain detail

Log/Lin Selection
User selectable Log or Linear display

Color Map
User selectable for hot poker, grey scale, or fluorescent

Waveform Display
Very fast display with support for time, frequency, and spectrogram display

Internet Remote
Powerful feature for remote test and measurement applications

Overlap Selection
Allows dynamic modification of overlap, including custom amount

Bandwidth Control
Allows full bandwidth of the hardware used for front-end acquisition

Mode Selection
Determines what type of analysis will be performed

Hyperception
The Leader in DSP

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Real-time Speech Analyzer for professional spectrogram analysis

Ordering Information

PART NUMBER:
   HSVI5000 - 1-Channel Speech Analyzer US $449.00

OPTIONAL CONFIGURATIONS:
   HSVI5100 - 2-Channel Speech Analyzer US $549.00

Please note - International Prices are 20% higher

System Requirements

PC COMPATIBLE RUNNING WINDOWS 95/NT WITH A MINIMUM **4 MB RAM, 256** COLOR GRAPHICS CARD, AND APPROPRIATE DSP/ACQUISITION CARD OR STANDARD WINDOWS SOUND CARD. **100** MHZ PENTIUM CLASS PROCESSOR OR BETTER SUGGESTED