P/N: HSVI4000

Real-time Signal Analysis

Finally, a low-cost real-time frequency domain analysis tool which doesn't sacrifice performance. Useful spectrograms are available immediately from your real-world signals using the Hyperception Dynamic Signal Analyzer and an appropriate DSP/Acquisition card or sound card.

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, a tool such as this can deliver a 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 HSVI4000 Dynamic Signal Analyzer. 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.

This is a great high-performance virtual instrument useful for many engineering applications.

Internet Remote

For remote test and measurement applications, a built-in internet connectivity capability is available. 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!

Hyperception

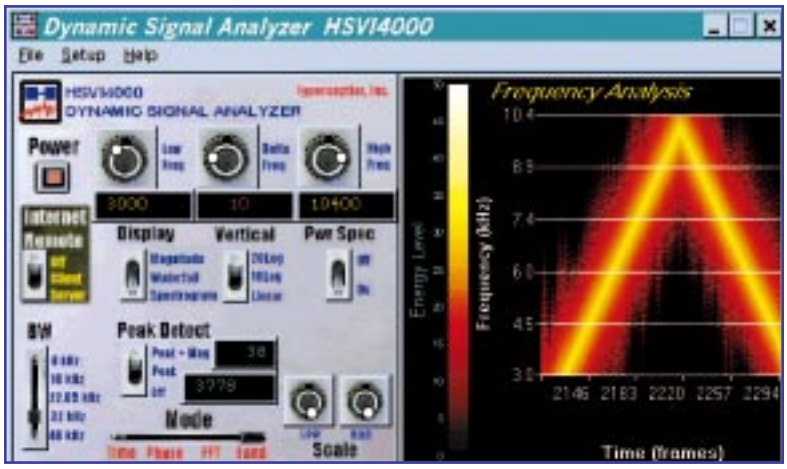
The Leader in DSP

VIDSP Instrumentation Series
Virtual Instruments with the power of DSP

HSVI4000
Dynamic Signal Analyzer

IAN

Real-time Signal Analyzer for Time, Phase, and Frequency Domain



The Dynamic Signal Analyzer delivers a professional multi-role instrument with an excellent price/performance ratio

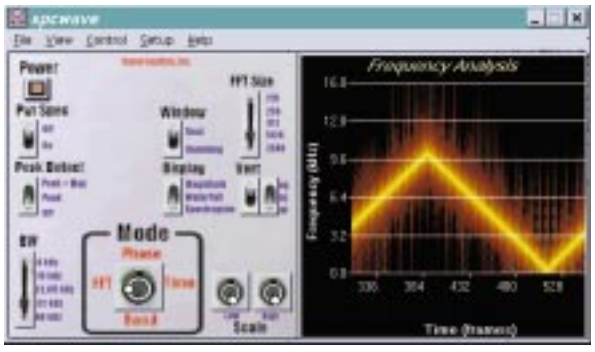
Overview

The Hyperception Dynamic Signal Analyzer is a powerful virtual instrument which is quite useful in a variety of engineering applications. It makes use of many different DSP/Acquisition boards, and can even make use of standard Windows Multimedia Sound Cards for the PC. It is capable of analyzing real-world signals in real-time and can operate in four distinct modes: FFT Analyzer Mode, Frequency Band Analyzer Mode, Phase Analysis Mode, and Time Domain Mode.

Hyperception's Dynamic Signal Analyzer is a professional virtual instrument which works in conjunction with a variety of DSP/Acquisition hardware to achieve sample rates of up to 10 MHz. This versatile instrument may even utilize standard Windows sound cards as its input acquisition source and is an ideal solution for real-time frequency domain analysis using a standard PC. The system allows the user to obtain a wealth of information regarding the frequency content of a real-world signal. The signal might represent speech, vibration, ambient noise, modulated signals (such as modems, etc.), or virtually any signal within the bandwidth limits of the front-end acquisition hardware.

Using high-performance floating point DSP/Acquisition hardware allows for real-time frequency domain analysis. The subsequent real-time display provides quick information while the signal is being monitored. A scrolling "strip chart" type of display is quickly updated for on-screen dynamic anaylsis of the incoming signal.

Since the instrumentation is being done on the PC, moving the resulting displays into word processors, spreadsheets, etc. is only a few clicks away!

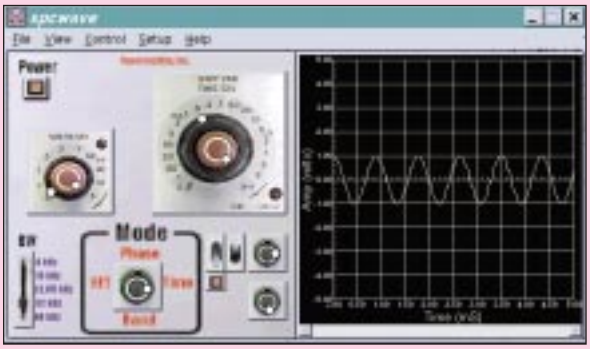


There are a number of powerful operating modes for the Dynamic Signal Analyzer

Dynamic Signal Analyzer HSVI4000

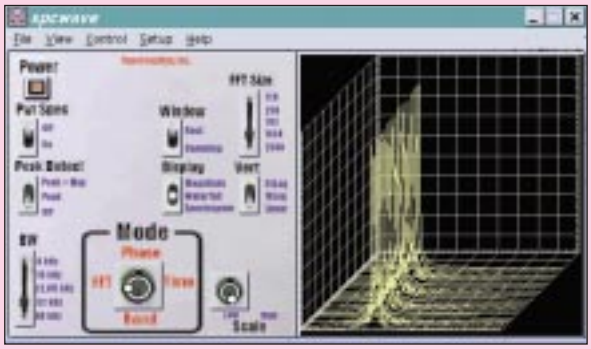
Operating Modes/Analysis Capabilities

Time Domain Analysis



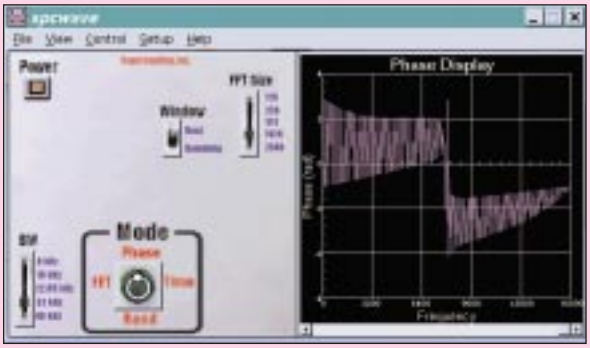
The Time Domain analysis mode allows for a standard oscilloscope-like interface, which minimizes the learning curve for obtaining useful work.

Waterfall Displays



The waterfall display is useful for observing the time-varying nature of a signal in the frequency domain; this display can be used along with the standard 10Log, 20Log, Linear, and 2-D Spectrogram analysis displays to allow the engineer a complete picture of his signal.

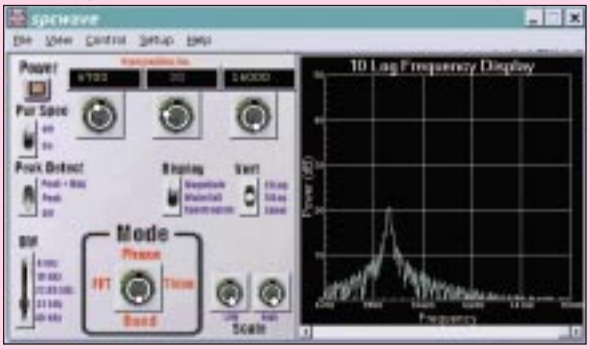
Phase Analysis



A phase analysis is included which operates from a selectable FFT size and window.

Band Analysis

(Optional, HSVI4200, HSVI4300)



The optional band analyzer capability allows for selective frequency band analysis with the user choosing the band of interest(low, high), and the frequency increment, a substantial improvement over standard FFT analysis for some applications.

Ordering Information

PART NUMBER:

HSVI4000 - 1-Channel Dynamic Signal Analyzer (standard configuration) US $ 749.00

OPTIONAL CONFIGURATIONS:

HSVI4100 - 2-Channel Dynamic Signal Analyzer US $ 849.00
HSVI4200 - 1-Channel Dynamic Signal Analyzer with Band Analyzer option US $ 995.00
HSVI4300 - 2-Channel Dynamic Signal Analyzer with Band Analyzer option US $ 1095.00

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

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