



P/N: HSVI3000

VIDSP Instrumentation Series
 Virtual Instruments with the power of DSP

HSVI3000

Frequency Domain Analyzer



Key Features

- Up to 10 MHz Bandwidth
- Peak Detection Analysis
- Windowing Options
- Control Over Frequency Resolution
- Provides a Cost Effective Solution
- Fast Screen Updates
- Up to 2-Channel Operation (HSVI3100)

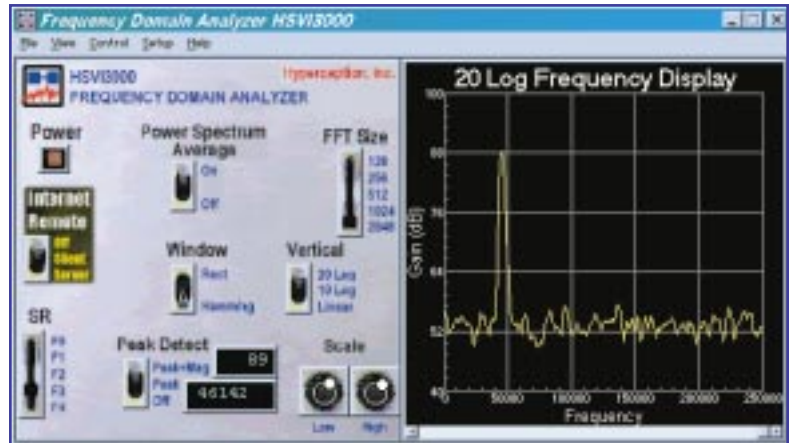
The low-cost associated with the Frequency Domain Analyzer virtual instruments makes them an attractive addition to any engineering test and measurement environment. When combined with a portable laptop computer, these instruments provide an ideal solution to many in-the-field applications.

There are many choices for DSP/acquisition hardware targets available for use with the HSVI3000 and HSVI3100 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!**

Low-cost Real-time Spectrum Analyzer for Frequency Domain



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

Overview

The Hyperception HSVI3000 Frequency Domain Analyzer provides comprehensive frequency domain measurements found in more expensive systems - at a fraction of the cost! 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 HSVI3000 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 20 Log, 10 Log, or linear magnitude data. Bandwidth can be user selected and is dependent upon the target hardware card selected for use with the HSVI3000. Frequency resolution can be adjusted by a toggle switch that controls the FFT size implemented by the Frequency Domain 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

Digital display readouts are provided for user-specified Peak Detection analysis. A three-way toggle switch allows for the selection of peak frequency value, and corresponding magnitude value. Window options include both Hamming Window and Rectangular Windows and can be applied through the use of a toggle switch.

The HSVI3100 Frequency Domain Analyzer contains all capabilities of the HSVI3000, but also addresses the need for applications that require two-channel input.

Hyperception produces a number of different types of virtual instruments for use with a variety of industry standard DSP/Acquisition hardware; for more information regarding other virtual instruments and supported hardware, contact us at (214) 343-8525, or visit us on our world wide web site:

www.hyperception.com.

Hyperception

The Leader in DSP

FEATURES AT A GLANCE

Log/Lin Selection

User selectable 20 Log, 10 Log, or Linear display

Window Selection

Select from either rectangular or Hamming Window

Internet Remote

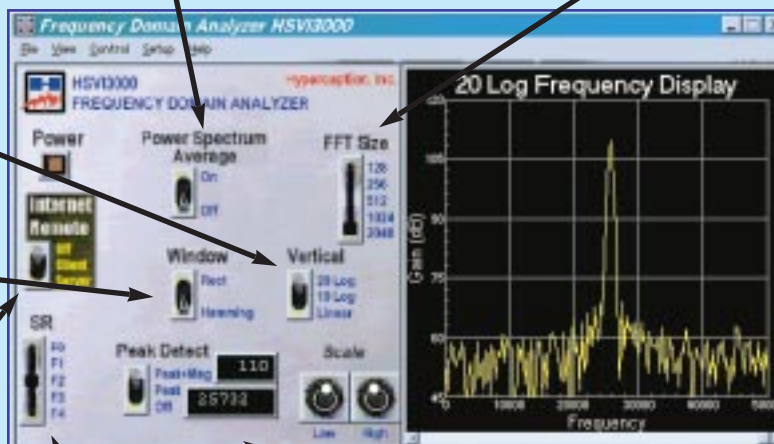
Powerful feature for remote test and measurement applications

Spectrum Averaging

Excellent for averaging out noise while characterizing signals

FFT Size

Allows for control over level of frequency domain detail



Waveform Display

Very fast display with internal frame buffering for observing waveform history

Bandwidth Control

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

Peak Detection

Allows dynamic tracking and readout of peak location and magnitude

Hyperception

The Leader in DSP

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Low-cost Real-time Spectrum Analyzer for Frequency Domain

Ordering Information

PART NUMBER:

HSV13000 - 1-Channel Frequency Domain Analyzer US \$249.00

OPTIONAL CONFIGURATIONS:

HSV13100 - 2-Channel Frequency Domain Analyzer US \$349.00

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