P/N: HSVI2000

VIDSP Instrumentation Series
Virtual Instruments with the power of DSP

HSVI2000
Time Domain Analyzer

Low-cost Real-time Oscilloscope for PC

Key Features

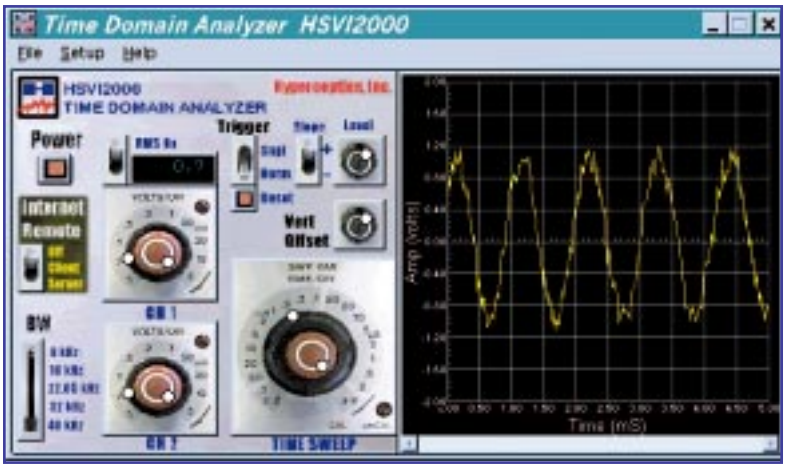
- ***Ideally Suited for Classroom and Lab Use***
- ***Up to 10 MHz Sample Rate***
- ***Fast Screen Update***
- ***Up to 2 Channel Operation (HSVI2100)***
- ***RMS Measurement***
- ***Horizontal and Vertical Calibration Control***
- ***Microsoft Windows-based Software***
- ***Photo-realistic Controls***

The HSVI2000 Time Domain Analyzer provides the performance you want out of a digital oscilloscope at a price you can afford. This oscilloscope uses an intuitive front panel display with convenient vertical, horizontal, and trigger control knobs. The ability for dynamic RMS energy measurement of a signal is also included.

By combining the HSVI2000 with an appropriate target hardware board (including industry-standard DSP/ Acquisition boards or even low-cost sound cards), you will be ready to analyze your real-time signals in no time!

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!***



The Time Domain Analyzer represents a low-cost alternative for many academic and personal engineering labs

Overview

The Hyperception HSVI2000 Time Domain Analyzer is a general purpose digital oscilloscope which will enhance your test and measurement capabilities. This very affordable virtual instrument gives you a reliable means of viewing signals, and provides the common user controls and displays with which you are accustomed. A photo-realistic front panel provides easy access to timebase, vertical sensitivity, sample rate selection, offset, and trigger controls.

Triggering

The HSVI2000 Time Domain Analyzer allows you to specify edge triggering on the input channel. Polarity can be user-selected to be rising-edge or falling-edge through use of a toggle switch. Trigger level range is selectable through a user control knob. The trigger mode can be chosen for normal trigger operation or selected for single-shot trigger operation with reset capability.

Vertical Control

Selection of vertical sensitivity is user-specified through a photo-realistic volts-per-division knob. Actual sensitivity range is dependent upon the target hardware board selected. Calibration of the vertical control is made possible with the inclusion of a calibration knob. An LED indicator light is set when the vertical control is operating in calibration mode. A vertical offset knob for channel trace positioning is also available.

Horizontal Control

Timebase range is user-specified via a photo-realistic time sweep knob. Actual timebase range is dependent upon the user-selectable bandwidth (sample rate) control, and the target hardware board selected. Timebase calibration is available with the timebase calibration knob. An LED indicator light is set when operating the time sweep in calibration mode.

Screen Display

The digitized waveform signal is displayed graphically within a measurement grid that is governed by both vertical and horizontal control selections. Waveform display is automatic and provides for a fast screen update rate. A separate RMS measurement digital readout is user-selectable through use of a toggle switch.

Hyperception
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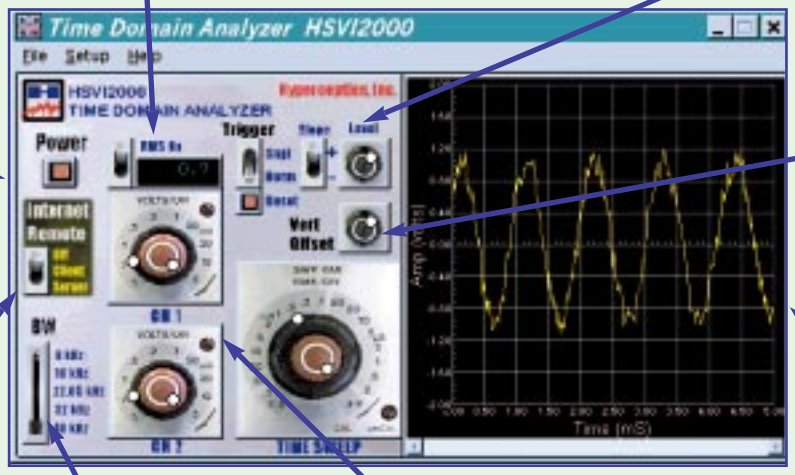
Time Domain Analyzer HSVI2000

Features at a Glance

RMS Level
Dynamically Displays the RMS level of the signal for quick energy estimates

Triggering
Control the level, slope and mode of the trigger - just like you expect

Realistic Interface
Very realistic interface including knobs with cal/uncalibrated function and corresponding indicators



Offset Control
Allows for vertical positioning of the signals on the display

Waveform Display
Very fast display with internal frame buffering for observing waveform history

Internet Remote
Powerful feature for remote test and measurement applications

Bandwidth Control
Controls the sample rate of the instrument.

Dual Trace Capability
Allows 2 signals to be displayed together in real-time.

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Low-cost Real-time Oscilloscope for PC

Ordering Information

Part Number:

HSVI2000 - Single Channel Time Domain Analyzer US $129.00

Optional Configurations:

HSVI2100 - Dual Channel Time Domain Analyzer US $229.00

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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