1.0 OVERVIEW

WAVECREST's Visi6 software is the latest software package to address the growing needs of the electronics industry for analyzing Signal Integrity. Jitter is a major cause of data signal fidelity loss. ***Visi6*** software, combined with ***WAVECREST's*** DTS line of instruments, provides the tools necessary to quantify and isolate these and many more timing anomalies.

Visi6 software provides one of the most comprehensive jitter analysis software packages on the market today. The Windows®-based GUI, Getting Started Wizard and online help will enable new users to confidently acquire useful data in seconds. Even inexperienced users will be capable of making measurements of accumulated jitter, low and high frequency modulation and frequency locktime enabling them to characterize and fully understand the performance of their clock signal. Furthermore, the addition of macros allows users to perform routine tasks at the click of a button.

Visi6 may be used as a jitter analysis tool for a variety of data communication protocols including Fiber Channel and Gigabit Ethernet. ***Visi6*** is a comprehensive data analysis package that includes patented algorithms capable of separating total jitter (TJ) into its deterministic jitter (DJ) and random jitter (RJ) components as well as the capability to predict the long-term reliability of systems and components in seconds.

1.1 SYSTEM REQUIREMENTS

This version of the DTS-207(x) ***Visi6*** software operates on a personal computer running Microsoft® Windows™ 95, 98, 2000 or NT 4.0 as well as SUN/Solaris® and Hewlett-Packard® Workstations.

HARDWARE REQUIREMENTS

Windows 95/98/NT 4.0

- Minimum extended memory: 32 megabytes for Windows 95/98
48 megabytes for Windows NT 4.0
- VGA Monitor
- Video Graphics card with minimum of 256 colors and minimum display area of 1024x768 pixels
- National Instruments GPIB card: PCI-GPIB recommended, PCMCIA or AT-GPIB
- Hard drive with 8 megabytes of unused space
- Printer is configured through Windows printer Setup feature

SUN/Solaris

- SPARC Workstation
- National Instruments GPIB Interface Card (GPIB-SPRC B), or external (GPIB/SCSI-A) interface box

Hewlett-Packard

- Hewlett–Packard 9000, Model 715 and above
- National Instruments GPIB Interface: a) EISA-GPIB for HP-UX or
b) GPIB-SCSI-A Controller
- HP E2070 Card (ISA HP-IB Interface Card)

  or,

  HP E2071I Card (ISA/EISA High Speed HP-IB Interface Card).

SOFTWARE REQUIREMENTS

Windows 95/98/NT 4.0

- MS Windows 95, 98 or NT 4.0 Operating System
- National Instruments GPIB driver to match GPIB card used

SUN/Solaris

- Solaris version 1.x (SunOS 4.1.x), or
- Solaris version 2.x (SunOS 5.x), and
- National Instruments GPIB driver: NI-488.2M

Hewlett Packard

- HP 9000 O/S 10.x and above
- National Instruments GPIB driver: a) NI-488.2M for HP-UX
  b) No driver software is required for the SCSI-A Controller
- HP E2091 HP I/O Libraries for HP 9000 series 700.

1.2 INPUT SIGNAL LEVELS

Measurement Channels - CH1 and CH2

Input Threshold Resolution..... ±1.1V, 0.15mV

Sensitivity..... >200mV (peak to peak)

Impedance..... 50 Ohms ± 2 Ohms to 1GHz

Frequency..... DTS-2075 800MHz
DTS-2077 1300MHz
DTS-2079 1600MHz

Minimum Pulse Width ..... 380 picoseconds (ps)

Connectors ..... SMA type

Arm Channels - ARM1 and ARM2

Input threshold ..... ±1.1V

Resolution 0.15mV

Sensitivity..... >200mV (peak to peak)

Impedance..... 50 Ohms

Connectors ..... SMA type ±2 Ohms to 1GHz