



Press Releases: IP Telephony, Network Testing & Monitoring

Freedom, California. - July 25, 2005 — Sage Instruments Inc., a leading supplier of VoIP testing solutions, today announced the availability of the 960B, the industry's most advanced and versatile portable test instrument. The 960B combines TDM (E1/T1), Ethernet (10/100), and Analog test interfaces to provide the industry's most comprehensive tool to qualify and quantify Voice Quality performance, Echo Cancellation, and in-band data transparency. The 960B provides developers and service provider labs a cost effective means to verify and certify gateways, IADs and IP Phones with wrap-around testing and comprehensive call testing focused on bearer channel performance. The 960B is equally at home in the field and provides service providers and network integrators a sophisticated yet intuitive tool to pre-qualify Enterprise LANs for VoIP service, and actively or non-intrusively troubleshoot in-service problems such as Echo.

"The Sage 960B represents a new generation of cross-over test tools to serve the emerging IP telephony industry. Its powerful real-time test technology will help operators more accurately access voice service performance and more quickly isolate transient impairments such as echo and contiguous packet loss", says Director of Marketing, Steve Glassman.

With its intuitive and extensible graphical user interface and multi-user command line interface, operators can control one or many 960B's or share a single unit. Combined with other Sage test products, the 960B forms end-to-end test solutions for a variety of test applications. For detailed Sage 960B product information, pricing and availability please call 831-761-1000 or visit www.sageinst.com.

Sage Instruments delivers a comprehensive range of handheld, portable and system solutions to test, monitor, and troubleshoot next-generation networks. Sage Instruments has been providing test technology and services for over 20 years and supports thousands of customers worldwide. Headquartered in Freedom, California, Sage Instruments is a privately held company, with offices throughout the Americas, Europe and Asia. For more information, visit www.sageinst.com.

Applications & Features

Voice Processing Validation & Quality

- Mean Opinion Score (MOS)
- Real-Time E-Model (ITU-G.107)
- One-way and Rnd Trp Delay
- Comfort Noise Level (CNG)
- Audio Level (Gain/Attenuation)
- Jitter Buffer Performance
- Packet/Frame Loss (% Avr, burst Length)
- Silence Suppression
- Voice Activity Detector Performance (VAD)
- Codec Type Detection
- Call Completion Time

Echo Cancellation Validation

- Multi-Echo Detection
- Echo Level, Echo Delay, Dispersive Echo
- Echo Canceller Disabler Tone
- Double Talk Test & Convergence Testing
- ITU G.168 Test Suite & Echo Can Control
- Passive Echo Monitor (INMD, TDM/RTP)

Fax & Data Service Transparency Validation

- Real Fax Emulation and Verification
- Fax/Data Modem Transparency Test (MoIP)
- Multi-Channel BERT and FT1

Passive Monitoring

- SIP Monitor
- RTP/RTCP Decode and Monitor
- Echo & Delay
- E-Model ITU G.107

Test Interfaces

- 2/4 T1/E1 - 48/124 Simultaneous Tests
- 2 10/100 BaseT - 128 Simultaneous Tests
- 4 Analog FXO ports (2-wire)
- 2 Analog Dry ports (4-wire)

Call Setup Signaling

- CAS
- SIP
- PRI ISDN
- Clr Channel

Utility Interfaces & Dimensions

- Com Port: Single USB, Series B
- Power: 120/240VAC, UL,CE
- Size: 10"x4"x14.5", wt. 10 lb Fully Loaded.

General Features

- PC Graphical User interface, Multi-User CLI
- Software Selectable Channel/RTP Strm Audio
- VF Spectrum Analyzer, PCM Data Capture
- Modes: Terminate, Monitor, and Drop & Insert