

SDI over IP Analyzer

VB440 Appliance with Instruments View



Preliminary Information
Subject to Change



The VB440 appliance with Instruments View enables full insight into IP-based uncompressed media in SMPTE2110 and SMPTE2022-6 formats. With its extreme precision, capability for understanding real-time packet transports, deep analysis of the content transported over IP and detailed video/audio/ancillary data insight, the user will have a full understanding of the performance of their underlying infrastructure.

Based around the Software IP Probe and backed by years of deep IP knowledge, the VB440 appliance provides up to dual-100Gb Ethernet connectivity and can be switched in steps from 10G, 25G, 40G, 50G and 100G giving industry-leading performance. Up to 4 parallel interfaces can analyze media in real-time and provide results via the web-based HTML5 user interface. This UI can be utilized on standard workstations or with a touchscreen tablet using the innovative aluminum housings designed specifically for the broadcast studio industry.

Experience real-time source selection with quick access programmable buttons or select from any flow present on the network. Content monitoring and analytics, including HDR colorimetry and multichannel audio analysis, can be done on any digital video/audio combination with resolutions from SD to HD and even UHD. The Instruments View for the IP Probe is a future-proof device capable of analysis in any IP-based architecture.

KEY FEATURES

- VB440-APPLIANCE includes a bundled 1RU server, dual-port network card (up to 100G) and software licenses
- Analysis and monitoring of SMPTE2110 and SMPTE2022-6 streams
- Packet analysis and behaviors displayed with accuracy down to sub-microsecond
- Dual Ethernet 10G, 25G, 40G, 50G and 100G links with dual 40Gbit analysis bandwidth
- View uncompressed video content at SD, HD and UHD resolutions including full-motion display and colorimetry
- Packet loss and jitter on both Primary and Secondary network circuits
- Unique analytics display of latency between redundant 2022-7 flows
- Audio timing analysis and with actual audio output
- PTP synchronization and timing analysis

INSTRUMENTS VIEW MOUNTS

To enhance the VB440 appliance usability in lab, studio and rackmount applications, Sencore offers optional aluminium mounts for the Apple iPad Pro. The rackmount and VESA mount casings come as a kit including a Gigabit Ethernet PoE adapter to provide both a wired network interface for the iPad device and also power via a PoE. There are also two network interfaces provided, so both primary and secondary network segments can be viewed. The mounts are also equipped with Neutric EtheCON connectors for rugged broadcast environments and extra security for the connections.



SUPPORTED STREAM FORMATS

SMPTE 2022: SMPTE 2022-6, SMPTE 2022-7
 SMPTE 2110: SMPTE 2110-10, SMPTE 2110-20, SMPTE 2110-21, SMPTE 2110-30
 PTP: IEEE 1588, SMPTE 2059-2 (Multicast, Mixed SMPTE w/o negotiation)

SUPPORTED VIDEO FORMATS

LINK	FORMAT	SAMPLE STRUCTURE	BITS	FRAME/FIELD RATE
SD - Standard Definition	525i	4:2:2 - YCbCr	8b/10b	59.94
	625i	4:2:2 - YCbCr	8b/10b	25/50
HD - High Definition	1920x1080	4:2:2 - YCbCr	8b/10b	25/50/59.94/60
	1280x720	4:2:2 - YCbCr	8b/10b	25/50/59.94/60
UHD - Ultra-High Definition	3840x2160	4:2:2 - YCbCr	8b/10b	25/50/59

SUPPORTED VIDEO FORMATS

LINK	SAMPLE RATE	BITS	DISCOVERY
AES67	44.1 kHz	24b	SDP
	48 kHz	24b	SDP
	96 kHz	24b	SDP