

Product Brief

VIAMI

VSA Portable

An Integral Part of the VIAMI Solutions Video Service Assurance (VSA) Solution

VSA Portable integrates VIAMI VSA Streaming digital video analysis software in a portable form factor that is easily deployable in your headends and network. Specifically developed for video service providers, VSA Portable is a cost-effective and rugged portable standalone analyzer.

VSA Portable enables users to analyze digital video with a breadth, depth, and accuracy never before available. The VSA Portable simultaneously monitors hundreds of programs whether the physical layer is Ethernet, RF or ASI. In addition, deeper video analysis allows for the identification of video still and black to help reveal the true end user perception of video. This helps ensure the video is not compromised as it undergoes encoding, ad insertion, transcoding, or transport across networks.

VSA Portable analyzes loudness to verify audio levels for hundreds of audio streams simultaneously in real time, to ensure compliance with the CALM Act. Analysis and alarming is based on industry standards such as ITU BS.1770.

The Closed Caption (CC) analysis monitors hundreds of programs of simultaneously. It verifies the presence of CC content, identifies any errors associated with the service, and presents the CC text to the user. This monitoring provides full visibility of the closed caption, validating the service health at the transport layer as well as the user data.

Troubleshooting analysis does not impact monitoring functions, eliminating the need for users to choose between monitoring or performing real-time, in-depth analysis.

Benefits

- Analyzer in a rugged portable chassis
- Numerous available interfaces
- Decrease MTTR through quick analysis of issues
- Avoid fines and reduce trouble tickets by ensuring compliance with national and local regulations
- Streamline processes with in-house system for fault isolation with actionable intelligence.

Features

- Dual 10/1 Gigabit Ethernet interfaces, ASI, ATS and QAM interface.
- Integrated MPEG2-TS analyzer for parallel troubleshooting and monitoring
- Video Quality Index (QoS) and MOS (QoE) identify impairments such as still, black, tiling and macro-blocking
- Audio loudness and CALM Act compliance
- Closed Caption Analysis

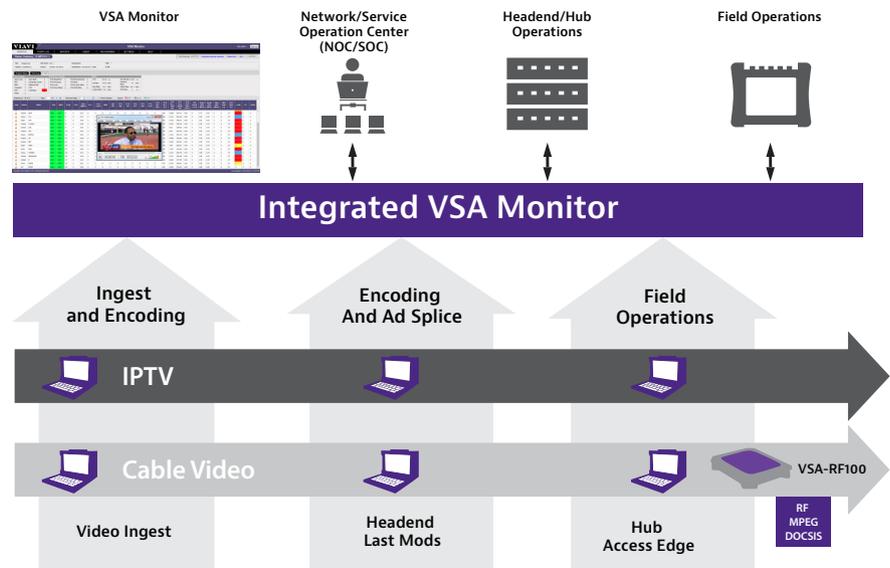


Specifications

VSA Portable Capabilities	
Interfaces	10/1 Gigabit Ethernet: 1/10G SFP+, ASI EN 50083-9, QAM, 8-VSB, Optional HD-SDI, Optional ATSC 3.0
Hardware Specifications	Portable rugged chassis; 17" TFT LCD 1920 x 1080 monitor; Folding keyboard and touchpad with Intel Xeon processor; 128 GB DDR4 ECC RAM; Dual 1 TB SSD Drives (one OS and one data); 7x full-height full Length I/O half-length PCI slots; 2x management ports 1GbE Intel i240 chipset; 6x USB 3.0 ports Windows Server 2012 R2 Standard 2x 1G/10G Ports RF Card (8-VSB, QAM, ATSC 3.0) ASI and HD-SDI Card
SimulTrak Monitoring	TR101-290 priority 1 and 2; SCTE-142; PCR lock, jitter, frequency offset, drift rate; PID bit rate; program loss; stream loss, program bit rate; audio bit rate; video bit rate; null bit rate; PTS-DTS delta; late media; inter-frame delay (IDF): min, max, avg, std deviation; RTP: loss, out of order, loss periods, distance errors, loss length errors, bad timestamp; RTP jitter: min, max, std deviation; RTP RFC 3350 jitter: min, max, avg, std deviation; changes to source IP addr, MPEG info, DPI packet detected; On demand and capture on trigger with pre-trigger buffer with export to PCAP or TS; thumbnails, video decode, video still/black detection, video MOS, Video Quality Index (VQI), SNMP alarming; XML API for alarming, data extraction; raw data available for performance management statistics and reporting. The VSA Portable Model A is licensed for 250 Programs of SimulTrak, Closed Caption, Content Monitoring, 500 PIDS of Loudness and Capture. Optional HD-SDI and ATSC 3.0
Real-Time MPEG Analyzer	MPEG-2; MPEG-4; AVC; H.264; H.265 8 and 10 bit, GOP Length and Sequence, TR101-290 priority 1, 2, and 3; MHP; SCTE-35; digital program insertion (DPI) analysis; MPEG-2/PSI and ATSC/PSIP; and DVB/SI table decodes and hierarchy; private table decode; SimulTrak monitoring measurements plus: stream type; PID count; GE bit rate; MPEG2-TS bit rate; other bit rate; program count; packet count (audio, video, other); PCR: jitter (avg, max), accuracy (avg, max), frequency offset (min, max, drift rate: current, max, min); hex display; events list and logs
Network Analysis	Frame count; frames per second; frame size, distribution, type (unicast, multicast, broadcast); source MAC, IP addr, port; destination MAC, IP addr, port; protocol (RTP/MP2T, RTP, UDP, IPv4); VLAN identifier (outer and inner for stacked VLAN); IDF: min, max, avg, std deviation
RF Analysis	64/256 QAM, 8-VSB, Power, MER, BER, Constellation, Optional ATSC 3.0
Closed Captioning	EA-608 and CEA-708 closed captioning; compliant with relevant standards SCTE-20, 21, 43, and ATSC A/53; Text export
Loudness	ITU-R BS.1770-4; audio level; ITU gated/ungated loudness; true peak; supported for AAC and AC3 audio, SCTE-35, graphing. The VSA Portable Model A is licensed for 500 audio PIDS
Ordering Information	Part Number: VSA-PORTABLE-A



VSA Portable



VSA Portable is managed internally by the VSA Monitor to provide a simple browser based user interface



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