VStream Analyzer

The most affordable way to qualify, maintain and troubleshoot IPTV circuits.



Main Features

- Automatically tests all channels and indicates pass/fail results.
- Complete Set Top Box (STB) emulation.
- Full Motion Picture video preview of all analyzed IPTV streams.
- Simultaneously analyzes multiple IPTV streams.
- Accurate audio and video MOS score.
- Comprehensive Video and Transport Stream statistics.
- Advanced Video Perceptual Quality Metrics.
- Operates with Windows XP/Vista/7.

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Specifications

CAT error count Physical Layers Supported -10/100/1000 Ethernet, Wi-Fi 802.11 b/g/n. Video Perceptual Quality Metrics -MPEG2-TS TR101290 Priority 1 -**Recognized Video Compression Standards** Instantaneous absolute MOS Last errors Minimal absolute MOS MPEG2, MPEG4 part 2&10 (H.264). TS sync loss count Average absolute MOS Signaling Protocols -Sync byte error count Maximum absolute MOS IGMP v 2 PAT error count Instantaneous relative MOS PAT2 error count STB Emulation -Minimal relative MOS Continuity error count Average relative MOS PID channel list & multicast address PMT error count Maximum relative MOS Channel name PMT2 error count Instantaneous audio/video MOS Channel auto scan PID error count Minimal audio/video MOS Active stream source and destination ad-RTP Packets Metrics (Carrying MPEG2-TS) Average audio/video MOS dresses Packets received Video codec Maximum audio/video MOS Corrected Stream content (PID with bitstream) Transmission quality: Lost IGMP latency (ZAP time) **EPSNR** Discarded Video preview (live full frame) EPSNR(ATIS) Out of sequence Simultaneous multiple streams operation Degradation Factors: Duplicated Lost Video Description Information -With timestamp errors Discarded IP source address Video Jitter -Codec quantization level IP destination address Frame inter arrival jitter Codec bandwidth restrictions Source port I frame inter arrival jitter Frame resolution Destination port Average frame arrival delay Frame rate Protocols Peak frame arrival delay GOP length Codec type Video Scene Analysis Metrics -Available network bandwidth Group of picture type Instantaneous detail level Audio/video synchronization Current GOP length Instantaneous motion level Average GOP length Recency Instantaneous panning level Max GOP length **Audio Description Information-**Static image proportion Average gap of I frame IP source address High detail proportion IP destination address Frame width Low detail proportion Frame height Source port High panning proportion Frame rate Destination port Low panning proportion Is interlaced High motion proportion Transport protocol Average number of slices in I frame Low motion proportion Reference clock rate Codec Type **Transport Packets Metrics -**Number of channels Jitter Metrics (RFC3550) -Packet to packet delay variation Reference clock Packets received Max packet to packet delay variation Lost **LAN Port Audio Perceptual Quality Metrics -**Discarded Minimal MOS Interface Corrected Out of sequence Average MOS Status Type Duplicated Maximum MOS Speed Instantaneous MOS Lost % Support multicast Corrected % Degradation factors Details Discarded % Lost Physical address Out of sequence % Discarded IP address Duplicated % Codec Subnet mask Burst count Recency **Default Gateway** Burst loss rate MPEG2-TS TR101290 Priority 2 -DNS server Average burst length [pkts] Last errors IPv4 statistics Gap count Transport error count Received and Sent Gaps loss rate CRC error count **Bvtes** Average gap length [pkts] PCR error count Packets PCR repetition error count Unicast packets PCR discontinuity error count Packets with errors PCR accuracy error count

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PTS error count

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Packets discarded

Non unicast packets