Adaptive Streaming Monitor

Solution to monitor QoE and QoS of HLS streams and receive alerts if problems are detected.

Product information

Product

☑ Software
☐ Hardware [1]

Video quality metrics

☑ No reference
☐ Parametric
☐ Hybrid
☑ Decodability

Audio quality metrics

☑ No reference
☐ Loudness (according to recommendations ITU BS 1770-2 and EBU R128)
☑ Decodability

Input types

☑ Files
☑ HLS streams
☐ Capture card/device
☐ Desktop capture

Input formats

☑ HEVC (H.265)
☑ MPEG-4/AVC (H.264)
☑ MPEG-2
☑ Other encoded formats

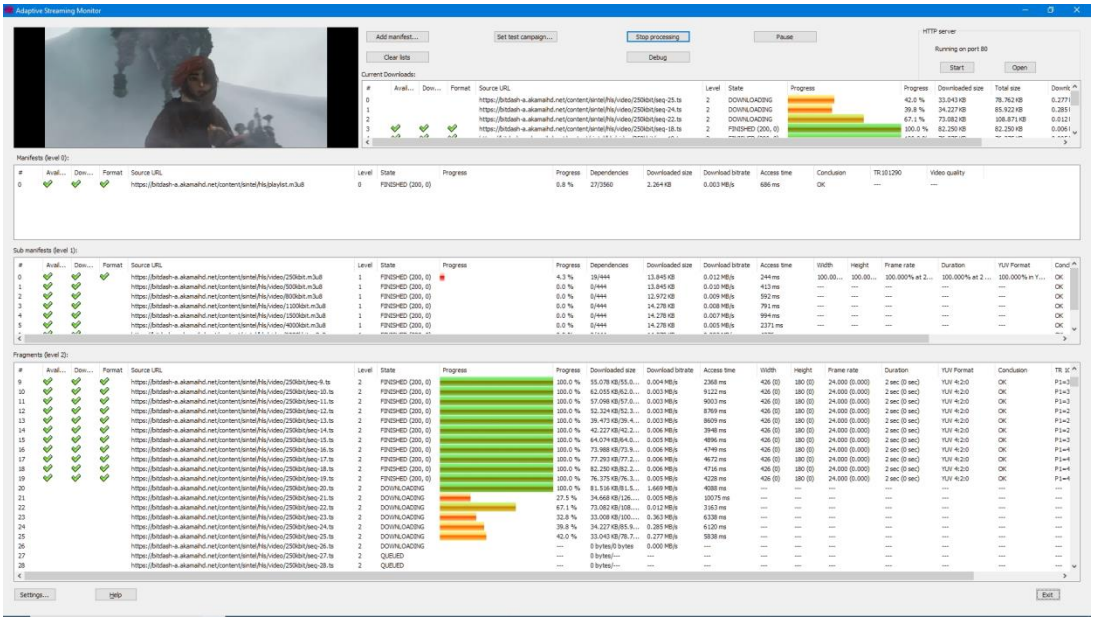
Applications

☑ HLS files monitoring [2]
☑ Jerkiness monitoring
☑ Quality monitoring

[1] Hardware (PC) may be supplied as an option

[2] For video monitoring, also see our other product Video Quality Monitor

Ask for a free evaluation version now!



Modern video streaming relies on adaptive streaming, and especially on HLS (HTTP Live Streaming).

To permit the monitoring the QoE (Quality of Experience) and QoS (Quality of Service) of multiple HLS streams, Adaptive Streaming Monitor is here.

Adaptive Streaming Monitor is a powerful software solution to measure and monitor the presence of all the video fragments of an HLS stream, but also their characteristics (resolution, frame rate, duration, YUV format) , their TR 101 290 errors and, last but not the least, video quality.

Adaptive Streaming Monitor computes video quality using a MOS (Mean Opinion Score) scale ranging from 0 to 100, using the same video quality metrics as Video Quality Monitor.

Adaptive Streaming Monitor r is a very useful tool to:

- **check the presence of all the fragments of HLS streams**
- **measure the video quality (MOS) of every fragment**
- **measure the audio quality (MOS) of every fragment**
- **measure TR 101 290 errors on HLS streams**
- **check the stability of resolution, frame rate, duration and YUV format on all the fragment of any profile**
- **receive alerts if problems are detected**

Adaptive Streaming Monitor quickly provides accurate, detailed and repeatable measurements.

Adaptive Streaming Monitor's **No Reference metrics** compute video quality sores by exploring the decoded frames at pixel level..

Each metric computes codec-specific artifacts:

- The **No Reference MPEG-2 metric** measures blockiness visibility and blur perception,
- The **No Reference H.264 metric** measures blockiness visibility, blur perception and objects contrast,
- The **No Reference HEVC metric** measures blur perception and picture flatness,

Adaptive Streaming Monitor also computes audio quality scores.

And since Adaptive Streaming Monitor does not depend on specific hardware, you can install it on any Windows™ PC. You can even run it on a laptop!

Evaluate Adaptive Streaming Monitor today!

Evaluation Is free!

Take the lead in the race for quality

AccepTV
172 route de Saint Joseph
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FRANCE

AccepTV
Perceived Video Quality Metrics

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Key features

Perceived video quality measurement and bitrate measurement

Video Quality Monitor measures the perceived video quality on a scale from 0 to 100. It also measures the bitrate of any frame (instant bitrate) and the mean bitrate.

Integrated web server and database

Video Quality Monitor saves all measured data in an integrated database and includes its own web server so you can remotely:

- consult the results from the database
- get monitoring statistics between two dates and times
- display interactive quality curves and "Quality vs. Bitrate" curves
- generate quantitative and detailed quality analysis reports
- generate mosaics and real time maps

Loudness and audio quality measurement

Video Quality Monitor enables to measure and monitor audio quality, audio bitrate and loudness according to international recommendations ITU BS 1770 and EBU R128.

Many other features

Video Quality Monitor also includes many other features like a watch folder, automation features, command line usage, a magnifying glass, etc.

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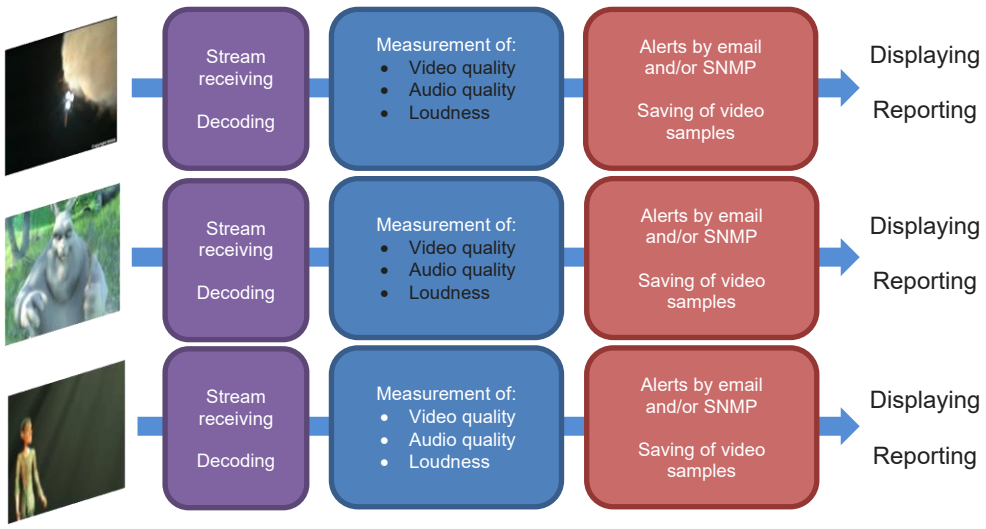
Principle



Features

Input
Compatible with all common codecs: HEVC, H.264, MPEG-2, VP9, VC-1 … and also with uncompressed YUV (4:2:0, 4:2:2, 4:4:4)
Compatible with the most common containers (TS, AVI, MP4 …) and with raw data
Compatible with all resolutions: SD, 720p, 1080i, 1080p, 4K, custom…
Compatible with all frame rates: 4:3, 16:9, 1.85, 2.21, 2.35, custom…
Compatible with all durations from 5 seconds to several hours
Compatible with CBR and VBR encoding
Compatible with all audio sampling rates (loudness measurement adapts itself to the sampling rate)

Input source
File
Streaming video (UDP, RTP, HTTP, HLS)

Measurement
Elaborate Human Vision modeling
Video quality measurement: measurement of blockiness, blur, contrast, jerkiness, computation of MOS (Mean Opinion Score) indicating the quality of the tested video
Impact of image freezing (due to rebuffering) on perceived video quality
Audio quality measurement: errors detection (silence, important distortions, signal breaks)
Loudness measurement in accordance with recommendations ITU BS 1770-2 and EBU R128
Instant audio and video bitrates measurement (for each frame)

Results
Curves and values of MOS, bitrate, blockiness, blur, contrast, jerkiness, loudness
Useful interface: measured video, video quality curves, video bitrate curve, measured audio waveform, audio quality curve, audio loudness curves, audio bitrate curve, magnifying glass
Monitoring statistics and curves between two user-defined dates (with one-minute granularity)
Automatic reports generation (TXT, CSV, HTML)
Alerts (email, SNMP traps) if quality is too low or if decoded frames number or audio samples number are incorrect
Video samples when problems happen (saved from a few frames before the problem so you see the problem appearing in the video sample)

Extra
Integrated HTTP server for distant results consultation and built-in database to store results
Possible command line usage (with many available arguments)
Possible sending of commands to Multi Audio Video Monitor while it is running (by calling URLs from the HTTP server)
Watch Folder: automatic processing of each new file in a folder (and its subfolders)
Real time operating mode
Can process several files or streams in parallel (designed to build video walls / mosaics)

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