

Analyzer H-E

The Analyzer H-E is a powerful tool for 24/7 full-service quality monitoring in head-ends, tailored for use after the final active video processing equipment. It monitors the whole service from the network layer up to the audio and video content layer, detecting everything from packet loss to freeze-frame conditions. The Analyzer H-E is a flexible yet turn-key ready solution for detecting content-level issues at the source, making it an integral part of a complete Agama DTV Monitoring Solution.

The Agama Analyzer H-E is a powerful software solution for continuous real-time monitoring of digital TV services in the head-end where unencrypted content is available. Performing Advanced monitoring, the Analyzer detects audio silence, black screen, freeze frame, and excessive macro-blocking conditions.

With real-time and historical views of the technical quality of service and the viewers' quality of experience including Mean Opinion Score calculation, operators gain a solid understanding of the quality of the content as it leaves the head-end.

Part of Agama's complete product line for true end-to-end monitoring, the Analyzer H-E detects issues at the source, avoiding costly misdirected troubleshooting downstream.



Key features

- Monitoring on the IP, UDP/RTP, TS, PES, a/v and a/v content layers
- Supports MPEG-2 and MPEG-4 AVC encoded HD and SD content
- Audio silence, black screen and freeze frame detection
- Encoding quality analysis with macroblocking and MOS calculation
- Configurable alarm generation for content-level error conditions
- Live thumbnails with audio bars for confidence monitoring
- Full real-time TR 290 analysis on all monitored streams
- Extended IP metrics with burst/gap analysis
- Presentation of service configuration, including DVB PSI tables
- Web-based UI with at-a-glance QoE and detailed QoS

Available add-ons

- IP Streamer
- Customer Load Generator
- Stream Forwarding
- Live Play
- Broadcast Monitoring
- Template-Based Monitoring
- Round-Robin
- Active RTSP
- Triggered Recording
- Multiple Location support
- Redundancy Monitoring
- T2-MI support





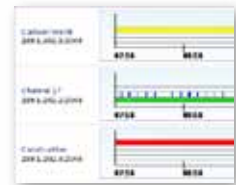
Key applications

- Early detection of content-level issues – the first step in true end-to-end monitoring**
 Ensuring that the audio and video content-level payload is of high quality is crucial for the end-user's perceived quality of the TV-service. Errors introduced in the head-end need to be detected early.
- Verify source feeds from upstream sources**
 Monitor the full service as it is delivered to the head-end from upstream providers to ensure that the delivery and encoding meet agreed quality standards and SLAs
- Troubleshooting of active head-end equipment**
 Catch issues such as jitter and visible compression artifacts introduced by encoders and other active equipment in the head-end and directly see the impact of corrective actions
- Visual inspection**
 Access to unencrypted content enables not only Advanced automatic monitoring on the audio and video content level, but also inspection of thumbnails with audio bars and stream recording for confidence monitoring

Unique Quality of Experience classification

The Analyzer continuously monitors and presents a large set of technical Quality of Service parameters. Based on sophisticated multimetric heuristic analysis, the QoS data is also refined into four color-coded QoE levels.

The classification is used consistently throughout the Agama DTV Monitoring Solution. This helps operators instantly assess the severity of problems and take the right actions in the right order.

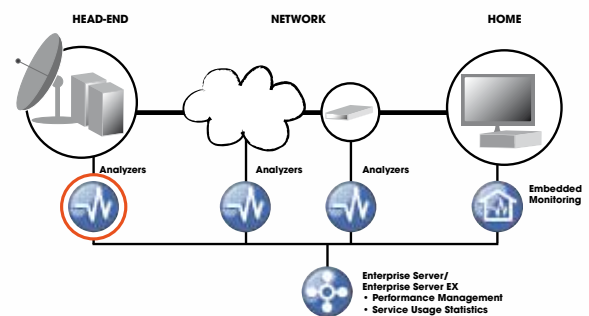


Part of a complete product range for true end-to-end monitoring

The Agama DTV Monitoring Solution is a complete solution for automated, 24/7 real-time monitoring of Live TV and VoD service quality. It features components for head-end, network, portable and in-STB monitoring.

With non-technical high-level views, low-level details, integration possibilities and advanced reporting, it supports every part of the quality-aware operator's organization in striving for excellence. Having all the critical information all the time from every relevant service layer at every strategic monitoring point allows operators to pinpoint problems in real-time.

Reducing time-to-fix, avoiding needless truck rolls and increasing customer satisfaction, Agama's customers work efficiently and build a reputation for outstanding quality.



Connecting the Analyzer H-E to an Agama Enterprise Server or Enterprise Server EX enables remote configuration, alarms functionality, central correlation with information from other Agama monitoring components, and reporting for SLA follow-ups and trend tracking.

A complete end-to-end DTV monitoring solution from Agama includes the following components:

- Enterprise Server or Enterprise Server EX for central management, system-wide quality overviews, alarms, and reporting
- Analyzer H-E for advanced monitoring in the head-end
- Analyzer NET, Analyzer eQAM or Analyzer FLEX for monitoring at strategic locations in the core and distribution networks
- Embedded Monitoring Solution for monitoring of end-point quality and usage in each and every set-top box with optional Video on Demand quality and usage monitoring
- Verifier Advanced for Video on Demand asset verification

