

# Surveyor™ ABR Compact Active



Portable QoS Monitoring of Multiscreen/OTT Streaming Video for Access or Edge Networks

## MARKET CHALLENGE

Consumers have an increasing number of options to view video content. If your customers experience slow video startup, mid-program buffering, or missing content, you are sending them an invitation to try a competitive offering. The result is churn. Even worse, you may not even know why the churn is occurring.

Verifying the quality and availability of Multiscreen/OTT video is a complex challenge. Each video asset is published in a variety of bitrates (“asset variants”) to support Adaptive Bitrate (ABR) streaming. Beyond that, there are multiple streaming formats to support the different devices that customers expect to use to play your video streams. All of this complexity increases the risk of a poor viewing experience.

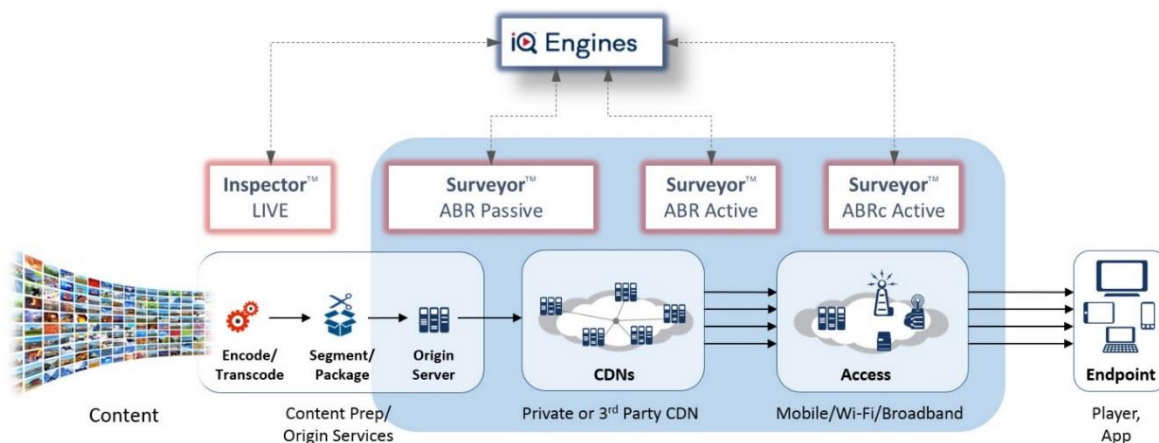
## THE IQ SOLUTION

Surveyor ABR Compact (ABRc) Active is a video quality monitoring solution that uses “synthetic client” technology to verify that your video content - live or VoD - is available and plays as expected, in every bitrate and format. It effectively acts as your most critical viewer, measuring video flows and keeping you informed about your service’s performance. Simply point Surveyor ABRc at the assets you want to monitor, and it continuously “plays” or cycles through the video to measure key performance indicators (KPIs). Surveyor ABRc Active is an integral component to IneoQuest’s ABR monitoring solution. Its small footprint and monitoring capacity is ideal for monitoring the access network and video assets that need attention by identifying issues before your customers are impacted.

Active monitoring is a great complement to client-based solutions that are designed for monitoring your viewers’ actual experience and behaviors. On their own, client-based solutions offer a limited view of content availability because they are reactive by nature. They only collect and report data on the specific bitrates that viewers are actually playing. Surveyor ABRc is a “proactive” solution. Using Surveyor ABRc to monitor performance of all bitrates, at different locations in the video delivery chain, you can identify quality weaknesses and diagnose their sources, potentially before your viewers are affected.

## FEATURES AND BENEFITS

- Availability measured for each bitrate variant of a video asset to identify issues before customer impact
- Asset-based multi-level drilldown for rapid trouble diagnosis/ reduced mean time to diagnose (MTTD)
- IneoQuest’s VeriStream metric provides a simple QoS “at a glance” grade of the video stream’s performance
- Real-time streaming error notification with customized threshold configuration puts the error detection emphasis where you want it
- Monitoring profiles support stream prioritization and differentiation groupings
- Full packet capture buffer based on customized trigger events for in-depth post-event analysis
- Stream forwarding for remote visual video inspection
- Compatible with the iVMS® ASM iQ Engine, providing a comprehensive, consolidated view across your FoQus platform acquisition elements



## APPLICATIONS AND USES

### For Video Service Providers, Content Owners, and Online Video Platforms (OVPs):

- Verify that all of your assets are available from your origin servers, and that the servers are meeting performance expectations.
- Continuously scan up to 10K assets in your VoD library for availability and QoS.
- Establish and monitor Service Level Agreement (SLA) benchmarks for your Content Delivery Network (CDN).

### For Online Video Platforms (OVPs), Network and CDN providers:

- Differentiate your service with real-time performance monitoring for your customers' video assets.
- Provide third-party validated video asset performance metrics.
- Quickly direct Surveyor to troubled video assets to help determine if a problem's root cause is in the CDN or elsewhere.
- Identify how specific assets perform in your network (e.g., 4K assets) to identify and help you eradicate trouble spots.

## SPECIFICATIONS

- Support for HTTP Live Streaming (HLS), MPEG-DASH (DASH), Microsoft Smooth Stream (MSS) and Adobe HTTP Dynamic Streaming (HDS) packaging formats
- AES-128 support for HLS
- Playlist error detection through dynamic parsing and conformance monitoring
- Monitoring and alarming of HTTP errors (HTTP 4xx, 5xx)
- Configurable Availability parameters
- Browser-based user console with multi-user access
- Media File error detection
- HLS stream playback for visual inspection
- Remote Video Link (RVL) for stream transmission to remote players
- Configurable event trigger with 1GB packet capture buffer
- Keyless QoS measurement of encrypted streams
- 4x 10/100/1000Base-T Ethernet support via RJ45: 1 Media, 1 Management, 2 "future"
- Remote configuration storage

