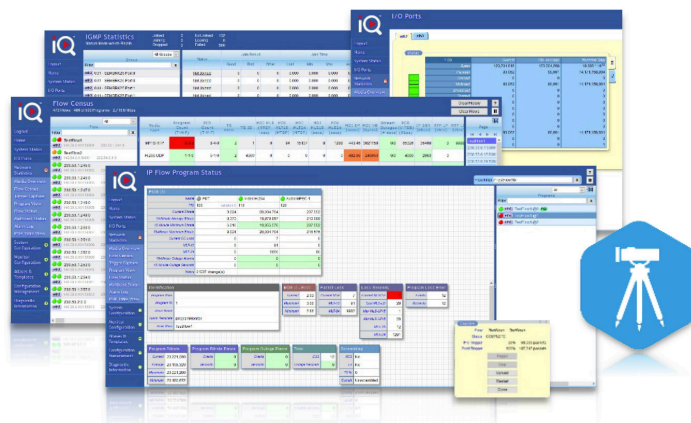


Surveyor TS

Product Sheet



Surveyor™ TS

High Density, Real-Time QoS Monitoring for IP MPEG Transport Streams

You are responsible for delivering video in MPEG2 Transport Streams - thousands of programs, and tens of Gbps of video traffic. All of the content must arrive on time, all the time; which means your network must reliably provide sufficient Quality of Service (QoS). The introduction of 1+ Gbps to the home, DOCSIS 3.1 and IPTV delivery bring changes to your network which can increase and amplify QoS risks, as your key video content traverses new and immature network infrastructure on its way to your customer. You must detect video impairments as quickly as possible, hopefully before they impact the user's viewing experience, or viewership and revenue are put at risk.

By monitoring your video network's performance with Media Delivery Index (MDI), Program Availability, and ETR 101 290 parameters, you can quickly detect, identify, and resolve problems that could impact the viewer's experience and effectively manage that risk.

Surveyor TS (Transport Stream) is a high capacity, scalable MPEG-2 Transport Stream monitor that provides comprehensive digital QoS monitoring with more capacity in a smaller network footprint than prior generation solutions. Surveyor TS continuously monitors up to 20 Gbps of video traffic at line rate and in real time, measuring, trending and alarming on the TR 101-290 and QoS metrics for each program. Surveyor TS is designed to locate transport impairments as they happen and produce actionable insights that allow you to address issues before they impact the customer viewing experience.

Surveyor TS delivers comprehensive QoS monitoring, enabling diverse network applications such as:

- Full time 24x7 line rate monitoring of video network performance.
- Flow-by-flow, program-by-program troubleshooting
- Video network design and engineering

Surveyor TS can be used standalone, or as part of a multi-element video quality assurance platform - through the use of video management solutions such as ARGUS and iQ Acquisition solutions such as Inspector LIVE, Sentry and other Surveyor family probes. This platform provides operators with a comprehensive view of content quality from origin through network transport.

Key Benefits

- Proactive visibility into the performance of MPEG transport streams at any point within the IP video delivery network.
- Availability measured in the network for each program to identify issues before customer impact.
- A tool for operations to solve problems, reducing mean time to resolve.
- Ensuring Ad Insertion SCTE-35 signaling delivered to Ad splicers
- Help ensure video quality across new Remote PHY distributed access architectures and new technology, such as IPv6

Features

- 24/7 or scan monitoring of transport streams with program-based multi-level drilldown into per PID statistics for rapid fault isolation and reduction of mean time to diagnose (MTTD)
- Real-time, line rate monitoring and measurement of up to 20 Gbps of video traffic and up to 2,000 programs with up to 128K PIDs
- Provides per-program Availability metrics
- RFC 4445 Media Delivery Index (MDI) metrics for IP distribution monitoring
- QoS monitoring for MPEG Transport Streams supporting the following CODECs and others:
 - MPEG-2
 - MPEG-4
 - AVC/H.264
 - HEVC/H.265
- Per program Audio, Video, and Control PID Alarming
- Open API for user access to the Surveyor TS metrics and information
- Detection of SCTE-35 program insertion signals for validation
- Support for new Remote PHY Distributed Access Architecture
- Support for IPv6 addressing on the media ports
- PSI/SI/PSIP table decode and display
- Continuous analysis of TR 101 290 priorities 1, 2 and 3 on all monitored IP transport streams

- Unicast, multicast, and broadcast support for comprehensive stream handling
- Triggered capture of impaired video for post analysis
- 802.1Q VLAN tagging support, selection, and detection
- Configurable alarm handling including severity level definitions
- SD, HD, and UHD support to handle all your video
- Uses Lightweight Directory Access Protocol (LDAP) for user authentication
- Browser-based User Interface with multi-user access
- IGMPv2 and IGMPv3 SSM support
- RMON Statistics

Product Specifications

- Available in the following an appliance-based and virtual packages:
 - Rackmount 1RU Appliance packaged solution is licensable for up to 2000 concurrent programs.
 - Compact Portable Appliance packaged solution is licensable for up to 500 concurrent programs.
 - The virtual software package is licensable for up to 500 concurrent programs. Virtual Machine packages available in a VMWare or KVM hypervisor environment.
- Data Extract API and R-PHY Monitoring are licensable options

