Sensor

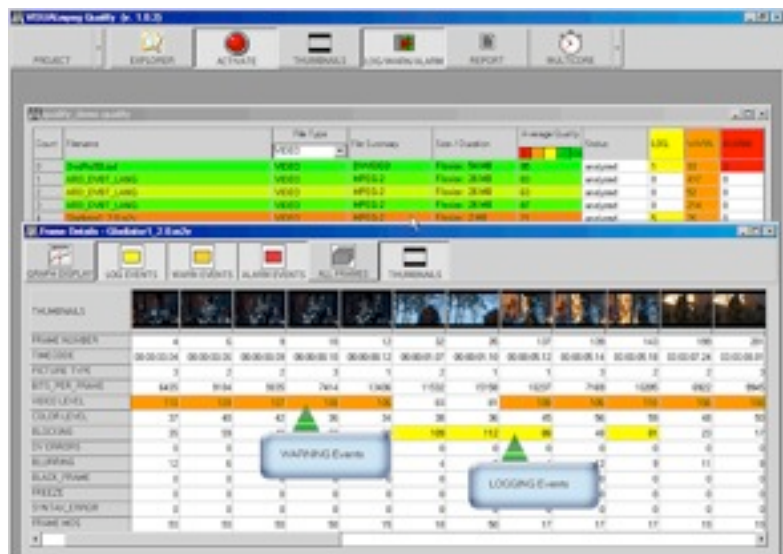## Get Ready for Next Generation TV

Issue 79 - March 2009

HIGHLIGHTS

▸ DVStation-Mini² DVB-T

▸ Electronic Couch Potato™ (ECP)

Seen this yet? Register now for the VISUALmpeg Qualify Flash Demo

VISUALmpeg Qualify™ was introduced as an expansion of Pixelmetrix array of video and audio quality analyzers. It offers a new level of off-line quality assessment for audiovisual streams with comprehensive support for most current industry video and audio encoding standards and media containers. Get your complimentary online demo here:
http://www.pixelmetrix.com/eng/visualmpegQ_registration.html

Improve Monitoring Performance with the DVStation-Mini[2] DVB-T

The DVStation-Mini[2] DVB-T is designed with remote deployment in mind, including minimal and efficient power consumption, a compact footprint and hardware contact closures for effective and real-time event notifications. This is supplemented with SNMP and CORBA management interfaces which enable the DVStation-Mini[2] DVB-T to notify a central operations center about events/alarms of interest.

Portable and compact in 1RU height form-factor, the DVStation-Mini[2] DVB-T combines high quality DVB-T RF measurements and in-depth TS analysis. Other key features include high MER resolution capability as well as black-out and freeze-frame detection on MPEG-2 / H.264 video streams.

Is your signal 'Everywhere' and 'Right'?

The Electronic Couch Potato™ and Consolidator Engine™ solution is a true service assurance tool enabling operators to monitor and measure Quality of Experience from end-users' perspective.
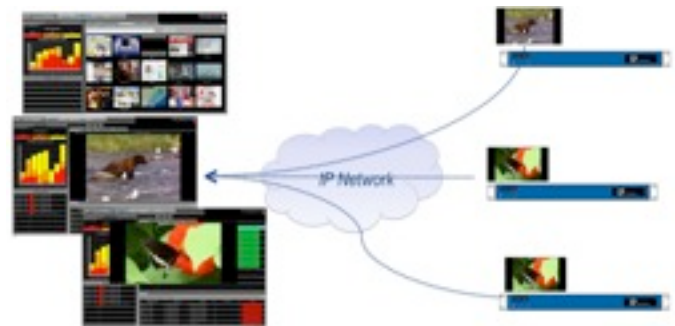
Without the ECP, service operators have no reliable way of knowing what the picture looks like at a remote site without actually dispatching a personnel to the site. To assist the operator to evaluate service quality from a central location, the ECP supports several features for remote telepresence, namely:

- Thumbnail Display – Look at real video content as Frames - after the STB
- Remote Service View (RSV) – Activate channel playback as real motion video over the network

The ECP, along with the Consolidator Engine enables a simpler and more cost-effective means of monitoring video content to ensure only quality content is distributed to subscribers. The Consolidator allows views to centrally verify—across multiple locations—exactly what subscribers are viewing. In essence, the ECP extends the NOC and all remote locations to the desktop.

See what your services look like Everywhere

- Live thumbnails of all scanned channels
- Live real-time streaming of any channel from remote location
- Multi user/ Multi- channel streaming platform
- On-the-fly H.264 and AAC Encoding of STB output
- Remote power control of STB from Central Management Server

Questions this Couch Potato answers for you

- Is my channel on the channel number I expect?
- Is the video frozen or is the audio missing?
- How does my channel look?

Electronic Couch Potato™
- Your tool to see what your users experience

- 24/7 visibility from all geographic locations
- Remote power control of captive STB in test location
- Intelligent consolidation of telemetry at central site
- Remote control features allowing unattended repeatable operations for unmanned locations

DVStation

DVStor

DVShift

About DVStation

Pixelmetrix has focused on creating a single self-contained monitoring station that can analyze thousands of parameters within hundreds of digital television signals. Through the use of plug-in modules and parallel processing, it can monitor all these parameters real-time, simultaneously and continuously. Whether it is monitoring for compliance of an RF carrier, MPEG transport stream, picture quality or program content, development efforts are targeted at assuring the quality of the signal, integrity of the program service and delivery of essential technical information to the right people, in a timely and meaningful manner.

The DVStation-Remote is a compact version of the flagship DVStation, ideal for smaller-sized facilities. Consisting of one to four book-sized Pod modules and a single 1U rack-mounted Remote Controller, the system is operated through a LAN or dial up telephone, allowing database or user access from a personal computer.

The DVStation-Pod is a low-cost tool that can analyze and troubleshoot digital broadcast signals. Lightweight and portable, it easily slips into a tool case. DVStation-Pod borrows most of the advanced features of the DVStation, including its extraordinary user-friendly interface, on-board transport stream capture, internal playback and analysis, as well as error and measurement logging.

The DVStation-IP^3 offers a one-stop monitoring engine for IP and Transport Stream Analysis, detailed service visualization and IP Headend Output verification for IPTV networks. It provides, on all services, MPEG-2 and H.264 main profile thumbnails, Media Delivery Index (MDI) which allows packet loss and jitter measurements as well as video presence, freeze or blackout displays.

The DVStation-Mini provides a compact and cost-effective way for terrestrial, cable and satellite operators to maintain visibility of network quality and performance. It offers comprehensive TS monitoring and is optimized for remote site deployment.

TS Time Shift

This unique product is ideal for delayed re-broadcast across time zones and provides stable, user-programmable delays from seconds to days.

DVShift is a great improvement over the conventional approach of utilizing separate audio/video delay equipment which simply does not work with the advent of multi-channel audio, multiple subtitles or closed captioning, and especially so with multimedia content such as MHP.

TS Recording & Playback

The DVStor system provides real-time recording and playback of MPEG transport streams over a pair of ASI interfaces.

Capable of recording more than three days of MPEG-2 transport stream, the full integration with our DVStation Preventive Monitoring platform means past alarms and errors can be fully investigated and analyzed.