

Sensor

NEWS FROM PIXELMETRIX



Issue 67 - NAB 2008 Special

HIGHLIGHTS

- ▶ Danny Wilson to speak at two conferences
- ▶ New! DVStation-Mini
- ▶ Lab Environment for IP Video Delivery
- ▶ Satellite Solutions
- ▶ Disaster Recovery Playout
- ▶ Electronic Couch Potato & ECP Consolidator

SEE US HERE

- ➔ NAB 2008
April 14 - 17, Las Vegas
Booth SU12105



Pixelmetrix
corporation

Watch us live
at NAB 2008
Booth SU12105

FINALLY! AFFORDABLE & COMPREHENSIVE TRANSPORT STREAM ANALYSIS

DVStation_{Mini}

SELF-CONTAINED, COMPACT AND PORTABLE

Easy To Use
Simple User Interface minimizes learning curve

Robust
Uses Linux with shock-mounted hard drive

Flexible
ATSC, DVB, Digicipher® Protocols, remote
VNC access, SNMP & LAN Integration

Available in two models: DVStation-Mini PSK & DVStation-Mini TSP

The ideal test tool for terrestrial, cable headend and satellite uplink monitoring

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Pixelmetrix to showcase the dynamic features of its Test, Measurement & Monitoring Solutions

At booth SU12105, Pixelmetrix will spotlight its suite of Test Measurement and Monitoring solutions for the cable, satellite, terrestrial and IPTV operators to optimize their service delivery.

Special features at the booth include integrated solutions - **Viewer Experience Monitoring**, presenting the Electronic Couch Potato™ (ECP) and ECP Consolidator™; **Video over IP Assurance** with the DVStation-IP³ and **Remote Monitoring** with the DVStation-Remote, highlighting the DVStation-Mini and introducing the DVProbe-C.

Also highlighted are the **Satellite Solutions** with the Emmy® Award winning DVStation-210, introducing ATSC Transport Stream Compliance Verification software, new IP solution to the DVStation-210 and DVB-S.2 ASLF; **Disaster Recovery** and **Compliance Recording** with the DVStor; **Lab Environment for IP Video Delivery** with the DVStorIP-Gen, DVStation-IP³, EndGame™ and introducing the VISUALmpeg Qualify (video and audio quality analyzer).

Danny Wilson to present an IPTV paper at NAB Telecom2008 and Broadband TV World Summit

Danny Wilson, Pixelmetrix President & CEO, is scheduled to present an IPTV paper at two conferences on April 16.

Details as follows:

1.40pm	NAB Telecom2008 Conference	Room N238
3.20pm	Broadband TV World Summit	Room S219

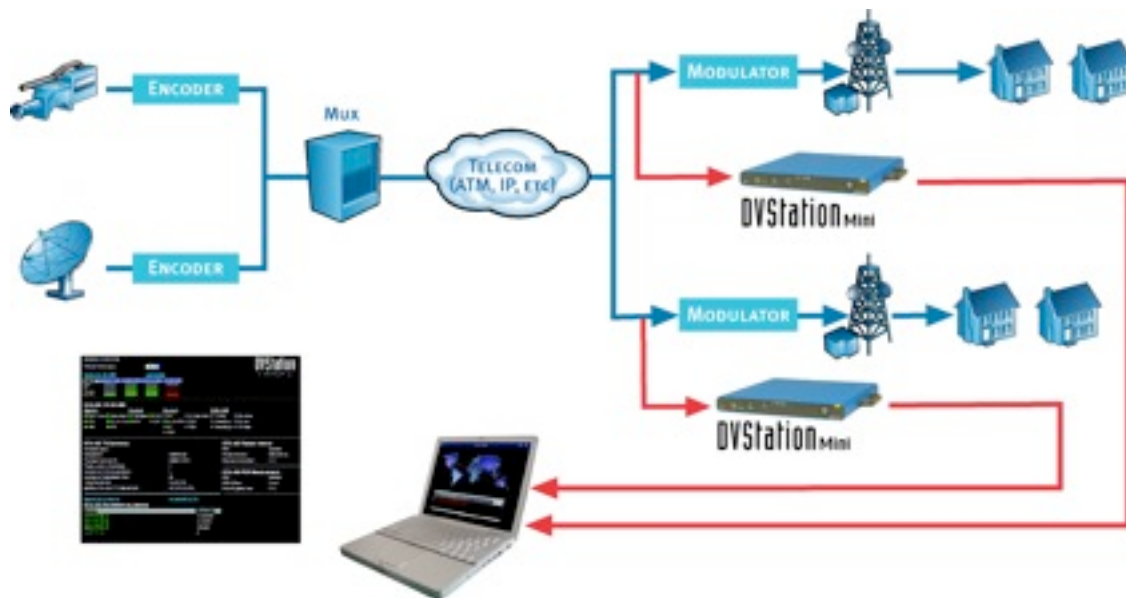
“The concept of delivering video over existing IP networks has captivated the telecommunication world. They see new opportunities and an exponential boost to their dwindling revenues. However, they have their set of worries too. So, how can they overcome challenges IP presents in delivering content? During the presentation, I will shed light on some of these issues,” said Danny Wilson.



This session will interest Telcos striving to optimize their IPTV service delivery. Wilson will share his perspectives on understanding TV in its totality, focusing on quality of television programming delivered to the end consumer and also how the IP transition will impact broadcasters.

A frequent speaker at IPTV and television conferences in Europe, Asia and North America, he currently serves as Editor for the Performance Monitoring/Quality of Service workgroup of the ITU-T/IPTV-FG.

NEW! DVStation-Mini Affordable & Comprehensive Transport Stream Analysis



DVStation-Mini TSP has a single test input of ASI or SMPTE-310 and can be used as a portable test device with easy to carry handle, or as a single RU rack-mounted unit. Signals can be monitored over a LAN or Internet connection using a simple web browser (supporting Mac and PC) or VNC remote user interface, which supports up to four users plus a shared mode for collaboration with others.

Target applications are DTV compliance testing for terrestrial broadcasting, cable headend testing and compliance, and satellite uplink contribution and distribution.

Measuring 13.5 by 1.5 inches and weighing only 5.7 pounds, the DVStation-Mini offers a full suite of transport stream analysis and monitoring tools – displaying video thumbnails and critical audio and video parameters in a concise and clear format. A simple user interface minimizes the learning curve, while its robust software allows users to drill down to examine errors.

Using the same Emmy® award winning technology as the full size DVStation, the DVStation-Mini is based on the Linux operating system, ensuring long term stability. It also supports DVB, ATSC and Digicipher® protocols for extreme flexibility.

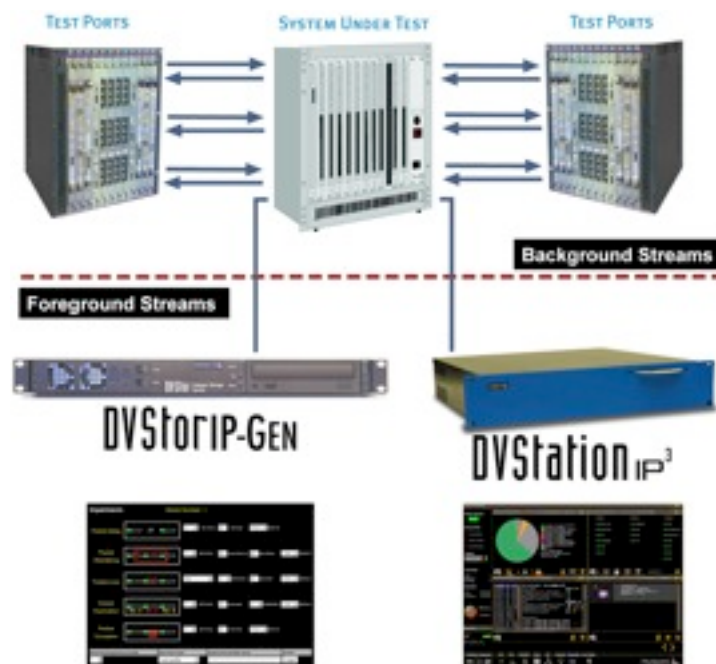
The unit features a shock-mounted internal hard drive that withstands hard mobile use and supplied programmable APIs and SNMP for integration with large Network Management Systems.

The DVStation-Mini is also available as a PSK model, featuring an L-band input.

NEW! Lab Environment for IP Video Delivery Featuring the integration of DVStorIP-Gen and DVStation-IP³

Check out the set up of a Lab Environment for IP Video Delivery with the integration of its DVStorIP-Gen, DVStation-IP³ and VISUALmpeg Qualify (video and audio quality analyzer) at booth SU12105.

VISUALmpeg Qualify is a new addition to the video quality analyzer family – offering 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. With a new and scalable distributed architecture, the VISUALmpeg Qualify allows for parallel test administration and browsing of results.



The DVStorIP-Gen is designed to simulate a fully operational IP video delivery headend. It is an effective lab test tool used to understand the behavior of network elements and devices in real world video delivery scenarios. A single IP-Gen eliminates the need for multiple equipment to simulate the operational scenarios of a typical IP video headend. The DVStorIP-Gen can generate error-free as well as user-defined impaired video streams. These capabilities are crucial for stress test network elements. Channel change simulation in a multicast enabled network and video server storage are some of the important functionalities of this cost-effective solution.

A one-stop monitoring engine for IP and Transport Stream Analysis, the DVStation-IP³ allows for 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) for packet loss and jitter measurements as well as video presence, freeze or blackout displays.

Danny Wilson, President and CEO of Pixelmetrix, remarked, "Combining these three robust systems creates a solid set-up for an IP Video Delivery laboratory environment. Simulating a real network is crucial for lab testing, yet, the flexibility and ease of use of this integrated solution makes the job a snap, assuring quality of service and quality of experience are not jeopardized in a live scenario."

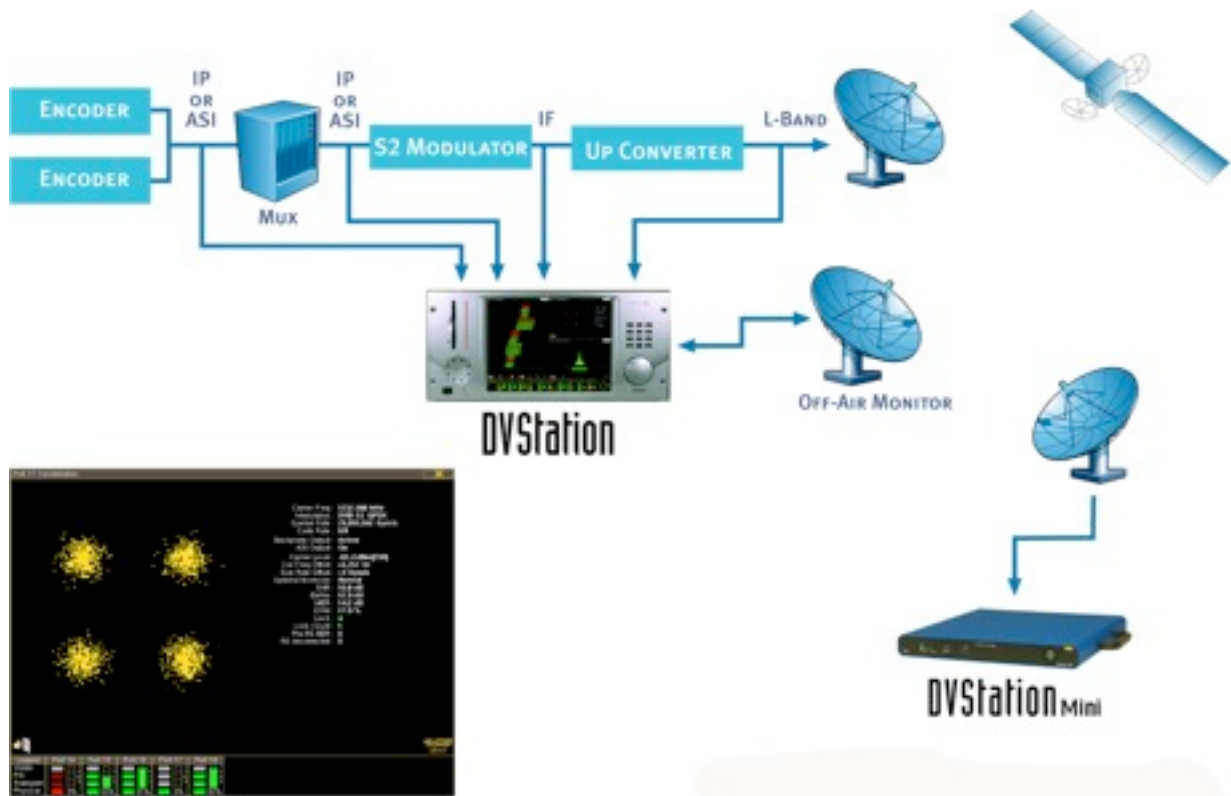
One-stop Complete Satellite Monitoring Solution

Pixelmetrix introduces two new modular interfaces to the ever-expanding DVStation family – video over IP solution and DVB-S.2 ASLF, at NAB this year.

The new video over IP solution provides immediate connectivity to IP networks for detailed MPEG over IP analysis with the Emmy® award winning DVStation-210. The new IP solution expands Pixelmetrix integrated headend monitoring offering with the flexibility to monitor any mix and match of satellite, cable, terrestrial and IP signals in the same platform, simply by installing different line interface cards.

DVB-S.2 ALSF (Advanced Satellite Line Interface) is a multi-standard solution for the monitoring of digital satellite transmission. It supports DVB-S.2, DVB-DSNG and DVB-S modulation of MPEG-2 transport streams.

Danny Wilson, President and CEO of Pixelmetrix, explained, “DVB-S.2 provides a tremendous amount of flexibility and efficiency in satellite communications by allowing various modulation schemes, enabling operators to balance bandwidth and robustness, while preserving their existing investments in spacecraft and ground equipment. The addition of the new video over IP solution and DVB-S.2 ASLF to our DVStation-210 range of test, measurement and monitoring devices, really creates a one-stop, complete satellite monitoring solution.”



DVStor: Disaster Recovery Payout

Continually recording and analyzing transport streams, Pixelmetrix DVStor can automatically play out archived content upon detecting an input failure. Transport streams are modified on the fly to ensure that neither the viewers nor the downstream equipment can tell between a live transmission and the recorded version.

“In order to serve up an effective disaster recovery strategy, the DVStor is designed and enhanced with a flexible and fail-safe architecture, making it the answer to service providers’ need to deploy it in their network operations environment,” said Danny Wilson, President and CEO of Pixelmetrix.



Electronic Couch Potato™ (ECP) & ECP Consolidator

The Electronic Couch Potato™ stands out with its ability to emulate the end-user changing channels on a Set Top Box via a built-in infrared (IR) control transmitter.

Service plan verification, channel switching and recording measurements on service quality for each channel to be reported to a central management console, equips the service provider with an in-depth knowledge of the end-user’s experience.

Most importantly, it helps to check whether the channels that the ECP scans are actually available in the first place.



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-IP³ 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

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.



DVStor

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.

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