

Application Note – AN115

DVStation Port Status Bar



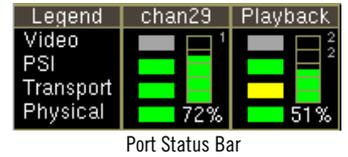
Martin Janzen

Sr. Software Engineer, Pixelmetrix Corporation

The DVStation series of preventive monitoring platforms provide real time visibility of multiple inputs while at the same time ensuring that each level of the transmission - from RF to content - is correct.

Displaying this information concisely and effectively is vitally important considering the even increasing number of services and programs being broadcast by an ever decreasing number of staff.

The DVStation's Port Status Bar is a key element in the presentation of this complex information.



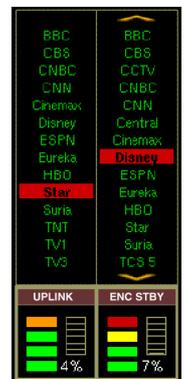
Graphical User Interface

The DVStation has a flexible GUI and offers several User Interface options. Increasingly complex networks and services call for a simple yet comprehensive presentation of complete services status. Information should be presented in multiple forms whether pie chart, bar chart or graph format.



DVStation supports up to 21 simultaneous inputs in a 5U frame while DVStation-Remote supports up to four inputs within a 3U form factor, while the DVStation-Pod provides a single input port in a portable, book-sized package which connects to a PC.

The system provides real time visibility of all layers of the transmission chain and the states of all input ports simultaneously. If anything goes wrong, the error status is indicated allowing the operator to drill down for more in-depth analysis and troubleshooting.



Additionally, a list of active and inactive services is displayed for each port. The automatic On-air Content Validation™ function flags errors within a particular service in red.

The chart below shows the different combinations of status indicators. The "Video" indicator [1] is for video quality, which is not measured by the TSP and QPSK cards. Additionally, if a serious error occurs at a lower layer, an indicator may be dark red [2] to indicate that errors at that layer are "masked" -- that is, they cannot be measured until the more serious underlying problem is resolved.

	Red	Orange	Yellow	Green	Dark Red	Grey
Video						[1]
PSI	PAT Error PMT Error	CRC Error CAT Error	NIT Error SI Rep Rate SDT Error EIT Error RST Error TDT Error	OK	[2]	
Transport	Sync Loss Sync Byte PAT Error Continuity Count PMT Error PID Error	Transport Error PCR Error	Unref PID	OK	[2]	
Physical TSP	Sync Loss Sync Byte			OK		
Physical QPSK	Synth Lock only	Synth and QPSK lock	Synth, QPSK, and Alignment	All Locks	No Lock	

To learn more about the DVStation, request a demo, or learn how Pixelmetrix might help you optimize video network integrity, contact us today at sales@pixelmetrix.com or www.pixelmetrix.com.