
Tektronix

VQS1000 Video Quality Test Suite
Release Notes
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This document supports software version 1.5.069.423.
www.tektronix.com

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Features

VQS1000 software will detect common video problems in compressed unencrypted transport streams, the data may be read from a file or read from a network source.

The Tektronix DTV monitor series have been modified to be a suitable network stream source for the VQS1000. When operating with a DTV monitor the VQS1000 is able to monitor each service in an MPTS in series, it is also able to signal video or audio quality issues to the DTV device to integrate into the log.

This release adds support for audio (MPA, AAC and AC3), the software calculates loudness and peak levels according to the ITU-R BS.1770 standard. Alarms may be raised if the levels are too high or too low for user specified periods. For AC3 streams the software can also alarm if the loudness deviates too far from the expected [Dial-norm] value.

Supported Operating Systems

Windows 7 32/64 bit
Windows XP 32 bit SP3

Recommended platform

The recommended platform for this program is a Core i7 Quad core (eg i7 920) or the server equivalent (eg E5520) with 2GB of RAM or 4 GB if using Windows 7 64 bit.

Installation

1. Obtain dongle and option key from Tektronix Inc.
2. Download "VQS1000_Setup.exe" from <http://www.tek.com/downloads/>, search for the model VQS1000.
3. Run VQS1000_Setup.exe (this may require an internet connection to update the .Net framework if v3.5 SP1 is not already installed). Once the installer has finished insert the dongle before selecting the option to run the software.
4. Run the software and enter your option key (Select license management... from the help menu).
5. The software is ready to use.
6. If you wish to use DTV monitors as live stream sources, then check they each are running v4.6.068.402 of their firmware. Then use the Decode tab on the Configuration dialog to select the VQS1000 as your 'player'

Issues Fixed

- CR00257733 - VQS1000 can freeze in the presence of many flows on the network port while inspecting all traffic.
- CR00257659 - Blockiness recording has the wrong name, was called tiling.
- CR00257593 - Enable logging setting does not persist between sessions
- CR00257559 - Only 16x9 and 4x3 aspect ratios are displayed.
- CR00257612 - VQS doesn't save video bit rate alarm configuration.
- CR00257507 - Graph time axis should not be based on real-time clock in file-based analysis
- CR00257592 - File analysis speed setting does not persist between sessions
- CR00257727 - AFD display sometimes missing
- CR00257612 - VQS doesn't save video bit rate alarm information.
- CR00257644 - Folder for log file doesn't have default value on config log page
- CR00257732 - Input NIC discrimination fails with identical cards.

Known Issues

During testing a number of issues were identified and found to be of low importance and not fixed for this release.

CR00257668 - Cannot analyze very small TS files, eg 2 MB.

CR00257657 - "Use polling" is unclear, it is always enabled but only applies when a DTV network source is in use.

CR00117738 - The VQS needs to see 2 video sequence headers before it will decode, so for short files with infrequent headers it may not display until after the loop point.

CR00257943 - Periodic effect on logged values when looping a stream, due to the log averaging starting at a different point on each loop.

CR00257910 - Poor quality MPEG decoding when streams have very limited bit rate from some encoders (contact support for a workaround).

Versions

VQS1000 = 1.5.069.423

MTM400 = 4.6.068.402

MTM400A = 4.6.068.402

RFM300 = 4.6.068.402

QAM400A = 4.6.068.402

IPM400A = 4.6.068.402

Java = v1.6.0_21