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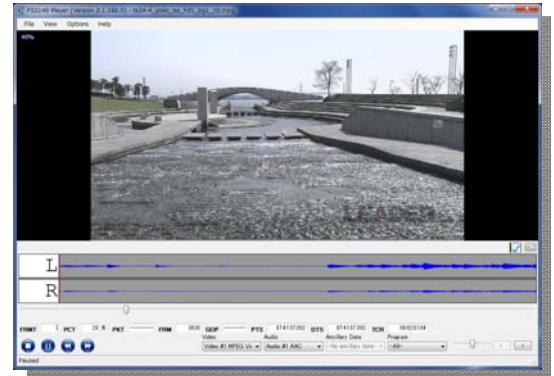
FS3140 File Based QC Solutions

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High volume, automated, no reference, file-based QC with easy-to-use web client and efficient fault reporting

FS 3140 Frame Accurate Player

Guaranteed frame accurate and frame synchronous player for any container and essence that FS 3140 can test

Technically, operationally and commercially, FS 3140 offers the modern file-based media organization a convincing business case to be adopted as the QC tool of choice:

Technically:

FS 3140 offers the most complete container and codec support, the most baseband quality measures and the easiest to integrate and install platform available in the market.

Operationally:

FS 3140 enables custom test template creation, has an intuitive web interface and a frame accurate player for efficient analysis of faults.

Commercially:

FS 3140 enables custom test template creation, has an intuitive web interface and a frame accurate player for efficient analysis of faults.

1 **Faster QC Analysis:** FS 3140 quality tests are faster with using the power of nVidia's CUDA technology to use the GPU as well as multi-core processing.

2 **Frame Accurate Viewer:** FS 3140 is closely integrated with our FS 3140 Player, enabling operators to easily and efficiently jump to the exact frame of a report issue.

3 **More File Wrappers and Codecs Support:** FS 3140 supports more video and audio codecs, ancillary data types and container/wrapper file types(and supports newly launched ones sooner) than anv other solution on the market.

4 **Comprehensive Test Parameter Portfolio:** FS 3140 provides you with a wide portfolio of QC tests, many unique to LEADER, enabling reliable fault detection.

5 **Easier To Integrate Into Your Workflow:** Designed for Automated workflows, with processes built around a web-services API and native hot/watch folder monitoring.

6 **Easy To Deploy:** FS 3140 API and user interface are all Web-based on a Windows server back-end, allowing rollout in Windows, Mac OS and Linux environments.

7 **Customizaable Test Templates:** Your test specification can quickly be imported into FS 3140 using our browser-based template editor to customize your content verification.

8 **Easy, Intuitive User Experience:** Intuitive browser-based User interface, with easy to access help system for each test and simple to read XML-based fault reports.

9 **Fewer False Positives:** FS 3140 focuses on identifying Issues that can be seen and head, using perception-based artifact detections, multi-level block noise analysis, silent black/freeze frame detection and filtered audio noise detectors.

10 **Trust Your Files Downstream, Faster:** Remove the QC Bottleneck from your operation with FS 3140's faster and more Accurate QC analysis…get your media assets making money.

The File-Based QC Tool of Choice for Modern Media Organization

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Container Wrapper Support	MXF(ALL OP, including AMWA defined AS, RDD-9, P2, SxS), TS, ES, PS / VOB, AVI, WMV / ASF, QuickTime / MOV, GXF, MP4, 3GPP, LXF, R3D, DPX, DXW. FS 3140 can also add support for custom containers.
Video Codec Support	H.264(AVC / AVC-Intra / MVC 3D), ProRes, JPEG 2000, RED, MPEG-2(including XDCAM, IMX and D-10), DNxHD(VC-3), EXR, Cineform(VC-2), VC-1(and WMV), DV / DVCPro, DPX, Flash VP-6 / 7, RAW(Huffman, YUV, RGB, Blackmagic)
Audio Codec Support	PCM Audio(WAV / AES / BWF), Dolby Digital(AC-3), DD+(EAC-3), Dolby TrueHD(MLP), Dolby E, AAC, HE-AAC, MPEG-2(L1,2,3), WMA Standard / Pro, MPEG-1
Test Support	Metadata Restrictions(Container, Video, Audio), Macroblock Noise, Black / Freeze Frame with Silence, Letterboxing / Pillarboxing, Rude Word Detection in Captions, Macroblock Cloud Detection, QP-Based Blurring, Comb Artifacts, Field Swaps, Tape Hits, Perfection-Base Artifacts(Film & Analog Noise), Peak Audio Levels, Silence, Clipping, Test Tones, Audio Snaps / Clicks / Pops, Channel Phase Detection, Average Loudness (A/85, R128, ARIB), Mono Audio Detection in Stereo Pair
Distribution & Test Support	Syntax Tests(MPEG-2, H.264, MVC, VC-1, AC-3, Dolby E, 608 & 708 captions, DVB subtitles, teletext, TS/PS, GXF,MXF), iTunes, CableLabs VOD, XDCAM, ATSC, DVB, AS-02, ISDB / ARIB
QC Test Speed	SD files can process 2x to 5x faster than real-time. Most HD Files perform real-time or faster with the muti-core CPU Support combined with the nVidia GPU. Perforamce can be Guaranteed by GPU / CPU allocation.
Systems Integration	Windows service back-end, WSDL-based SOAP API and Web browser-based user interface. Client facing components Allowing for rollout on Windows, Mac OS or Linux environments. FS 3140 Player on Windows only.
System Scaling	Starts with 1 Verification Unit(VU) to test one file at a time. Expand QC capacity by adding verification units on the same Physical machine, or on separate physical or virtual Machines. No limit on additional VUs. High Availability options possible with physical and virtualmachines.

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