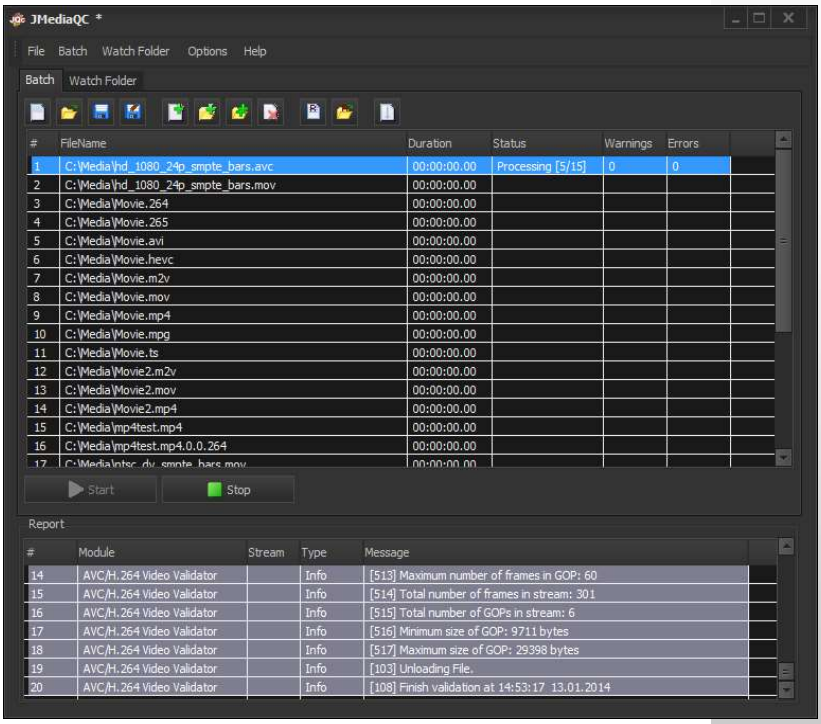
JMediaQC

Media Quality Control, Verification & Validation

JONGATE



OVERVIEW

JMediaQC is a sophisticated solution for manual and automated media content quality validation. Provides an easy way to evaluate the encoding and multiplex quality of your media content. Real-time and fast media processing in easy-to-learn and operate intuitive user interface. The product API allows integration with third-party systems.

Manual batch validation and watch-folder automated validation makes it easy to improve the quality of your digital media services.

Validation with **up to 20 times faster** than real playback time.

PRODUCT FEATURES

- File-based media format validation
- Container supported: MPEG-TS/PS, MP4, QuickTime, AVI
- Video compressions supported: MPEG-1/2/4, AVC/H.264, HEVC/H.265, DV 25/50/100, VC-1/3
- Audio compressions supported: PCM, MPEG Audio Layer I/II/III, AAC, WAV
- Image formats supported: BMP, TGA, JPEG, PNG, TIFF, GIF
- Other formats supported: EBU STL Subtitle
- Vast variety of supported input format resolutions and frame rates, from SD up to 4K, including 3D
- Batch validation mode for manual validation
- Watch-folder validation mode for automated validation
- Powerful solution API for easy integration with third-party systems and remote control
- XML-based validation reports
- Per-clip and per batch list validation reports
- Faster than real-time media validation process
- Informational, warning and error validation reports level separation
- Loop batch file validation
- Easy-to-use graphical user interface

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NATIVELY SUPPORTED MEDIA FORMATS

MULTIPLEX	VIDEO	AUDIO	OTHER
MPEG-2 Program Stream	AVC/H.264 Video	AAC Audio	EBU STL Subtitle
MPEG-2 Transport Stream	HEVC/H.265 Video	MPEG Audio Layer I	Image – BMP, TGA, JPEG, PNG, TIFF, GIF
MP4/QuickTime (MOV)	MPEG-1/2/4	MPEG Audio Layer II	XML
AVI	DV 25/50/100	MPEG Audio Layer III	
	VC-1/3	WAV Audio	

SUPPORTED INPUT & OUTPUT FORMATS

Input & Output Formats	• PAL 720x576 @ 50i 4:3/16:9 • NTSC 720x486 @ 59.94i 4:3/16:9 • HD720 50p, 59.94p, 60p • HD1080 23.98p, 24p, 25p, 29.97p, 30p, 50i, 50p, 59.94.i, 59.94p, 60i, 60p • 2K Resolution 2048x1556 23.97, 24, 25 • 3D Full SbS 720 50p, 59.94p, 60p • 3D Full SbS 1080 23.98p, 24p, 25p, 29.97p, 30p, 50i, 59.94i, 60i • 3D Full TnB 720 50p, 59.94p, 60p • 3D Full TnB 1080 23.98p, 24p, 25p, 29.97p, 30p, 50i, 59.94i, 60i • 3D SbS 720 50p, 59.94p, 60p • 3D SbS 1080 23.98p, 24p, 25p, 29.97p, 30p, 50i, 50p, 59.94i, 59.94p, 60i, 60p • 3D TnB 720 50p, 59.94p, 60p • 3D TnB 1080 23.98p, 24p, 25p, 29.97p, 30p, 50p, 59.94p, 60p

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VIDEO CODECS & FEATURES

MPEG Video Decoding	• MPEG-2 (ISO/IEC 13818-2), MPEG-1 (ISO/IEC 11172-2) and ATSC streams • Profiles: Simple, Main, High, 422 and Multi-View • Levels: Low, Main, High 1440 and High • Chroma Formats: 4:2:0 and 4:2:2 • Bitrate: Up to 300 Mbps • SubFormats: MPEG-1, MPEG-1 VideoCD, MPEG-1 DVD, MPEG-2, MPEG-2 SVCD, MPEG-2 DVD, MPEG-2 DVB, MPEG-2 MicroMV, MPEG-1/2 DVHS, Cablelabs MPEG-2, MPEG-2 HD DVD, MPEG-2 HDV HD1, MPEG-2 HDV HD2, BluRay Disk, MPEG-2 ATSC, MPEG D10-25, MPEG D10-30, MPEG D10-40, MPEG D10-50, XDCAM IMX, XDCAM IMX MPEG-2 4:2:2P @ ML (25 MBit), XDCAM IMX MPEG-2 4:2:2P @ ML (30 MBit), XDCAM IMX MPEG-2 4:2:2P @ ML (40 MBit), XDCAM IMX MPEG-2 4:2:2P @ ML (50 MBit), XDCAM HD, XDCAM HD MP@H-14 4:2:0 1440x1080 (25 Mbit CBR), XDCAM HD MP@HL 4:2:0 1440x1080 (17.5 Mbit VBR), XDCAM HD MP@HL 4:2:0 1440x1080 (17.5 Mbit VBR), XDCAM HD MP@HL 4:2:0 1440x1080 (35 Mbit VBR), XDCAM HD MP@H-14 4:2:0 1440x540 (12.5 Mbit CBR), XDCAM HD MP@HL 4:2:0 1440x540 (8.75 Mbit VBR), XDCAM HD MP@HL 4:2:0 1440x540 (17.5 Mbit VBR), XDCAM HD MP@HL 4:2:0 1280x720 (35 Mbit VBR), XDCAM HD 422P@HL 4:2:2 1920x1080 (50 Mbit CBR), XDCAM HD 422P@HL 4:2:2 1280x720 (50 Mbit CBR), XDCAM EX, XDCAM EX MP@HL 4:2:0 1920x1080 (35 Mbit VBR), XDCAM EX MP@H- 14 4:2:0 1440x1080 (25 Mbit CBR), XDCAM EX MP@HL 4:2:0 1280x720 (35 Mbit VBR)
AVC/H.264 Video Decoding	• H.264/AVC Decoding, compliant with ISO/IEC 14496 part 10 AVC / ITU-T H.264 • Profiles: Baseline, Main, High, High 422 and 444 • Chroma: 4:2:0, 4:2:2, 4:4:4 • AVC Intra: AVC-Intra Class 50, Class 100 and Class 200/AVC-Ultra(AVC-I 200), XAVC Intra • Bit support: 8-, 10- and 12-bit • 4k decoding offering support for AVC Ultra, AVC-Intra, XAVC and 4k 4:4:4 streams • CABAC/CAVLC • I, P and B slices • Weighted prediction • Low Delay flag • Field pictures • Assembler (SIMD) optimizations • SubFormats: SVCD, D1, High, DVD, BluRay SD, BluRay HD, Sony PSP, Apple iPod, AVCHD, AVCHD 2.0, OneSeg, 3GP, Silverlight, UltraViolet Portable Definition, UltraViolet Standard Defini"on, UltraViolet High Definition, DASH 264, Panasonic AVC-LongG 4:2:2 Classes G50 (50 Mbps), Panasonic AVC-LongG 4:2:2 Classes G25 (25 Mbps), Panasonic AVC-LongG 4:2:0 Classes G12 (12 Mbps), Panasonic AVC-LongG 4:2:0 Classes G6 (6 Mbps), H.264 intra frame coding (Class 200), SONY XAVC Long GOP 4K Profile for M4 and XD Style, SONY XAVC Long GOP HD Profile for M4 Style, SONY XAVC Long GOP HD Profile for XD Style, SONY XAVC HD Intra VBR Profile for M4 Style, SONY XAVC HD Intra CBG Profile Class 50 for XD Style, SONY XAVC HD Intra CBG Profile Class 100 for XD Style, SONY XAVC HD Intra CBG Profile Class 200 for XD Style, SONY XAVC 4K Intra CBG Class 100 for XD Style, SONY XAVC 4K Intra CBG Class 300 for XD Style, SONY XAVC 4K Intra CBG Class 480 for XD Style, SONY XAVC 4K Intra VBR Class 100 for XD Style, SONY XAVC 4K Intra VBR Class 300 for XD Style, SONY XAVC 4K Intra VBR Class 480 for XD Style

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VIDEO CODECS & FEATURES

HEVC/H.265 Video Decoding	• H.265/HEVC Decoding, compliant with ISO/IEC 23008-2 / ITU-T H.265 • Main (8-bit) and Main 10 (10-bit) Profile support (HM 14.x compliant) • DivX HEVC decoding support up to 4K • Switchable Wavefront Parallel Processing (WPP) • Sample Adaptive Offset (SAO) • Deblocking filter • Tiles & Slices support • PCM Coding • CABAC optimizations • I, P and B frames • Weighted prediction • Support for HEVC streams that use Scaling Matrices / Lists • Coding unit up to 64x64 • Transform unit up to 32x32 • Transquant Bypass • Multi-core & multi-threading support • Assembler (SIMD) optimizations
DV, DVCPRO & DVCPRO HD Video Decoding	• DV 25 MBit (IEC-61834) • DVCPRO 25/50 Mbit (SMPTE 314M) • DVCPRO HD in 720 50/60p and 1080 50/60i (SMPTE 370M) • Chroma Format 4:2:0, 4:2:2, 4:1:1 • 4:3 and 16:9 aspect
MPEG-4 Video Decoding	• ISO/IEC 14496-2 and ITU-T Recommendation H.263 video stream decoding • Simple and Advanced Simple profiles support • Full-resolution, full-quality decoding/playback (high precision arithmetic, quarter-pel motion compensation, post-process) • Optimized for the most efficient CPU usage - takes advantage of MMX™ and SSE™ extensions when available • High definition video decoding • Chroma Format 4:2:0
VC-1 Video	• VC-1 (SMPTE 421M-2006) Advanced Profile video streams (AP@L0, AP@L1, AP@L2, AP@L3 and AP@L4) • VC-1 Advanced Profile, WMV9 Simple and Main profile support • Levels up to Advanced Profile • Bit rate support up to 135 Mbps • Constant Quantization, CBR, VBR • Strict HRD compliance • Motion estimation, search range, 4MV search and sub-pixel depth
VC-3 Video	• VC-3 video(SMPTE 2019-2008) • 8 and 10 bit depth • Chroma: 4:2:2 • HD-1 (1280x720) • HD-2 (1920x1080) • Progressive & Interlaced scan

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AUDIO CODECS & FEATURES

AAC Audio Decoding	• MPEG-2 (ISO/IEC 13818-7) and MPEG-4 (ISO/IEC 14496-3) AAC audio • Main, Low Complexity and SBR audio object types • CBR and VBR • Bitrate: 6 Kbps - 1024 Kbps
MPEG Audio Decoding	• MPEG-1, MPEG-2, MPEG-2.5, LPCM, AES3 • Layer I, II and III • Bitrate: 64 Kbps - 384 Kbps
WAV	• RIFF • EBU - TECH 3285 • AES - 46

MULTIPLEX & FEATURES

MPEG-2	• MPEG-2 Transport Streams (ISO/IEC 13818-1) • MPEG-2 Program Streams (ISO/IEC 13818-1) • MPEG-1 System Streams (ISO/IEC 11172-1) • SubFormats: VCD, SVCD, DVD, DVD-MPEG1, DVB, MMV, ATSC-T, ATSC-C, HDV HD1, HDV HD2, AVCHD, BluRay, CABLELABS, SegOne, ATT, SegOne, Network Digital Television (DTV)
MP4	• MPEG-4 System Streams (ISO/IEC 14496-14) • 3GPP2 System Streams (3GPP TS 26.234) • SubFormats: MP4 Standard, ISMA, Sony PSP, iPod, iPhone, iPad, QuickTime, Flash, Sony P.M.C., Fragmented MP4
AVI	• Type 1 • Type 2 • ODML

SYSTEM REQUIREMENTS

System requirements	• OS: Microsoft Windows XP SP3, Vista, 7, 8, 8.1, 10 • CPU: Intel i7 (for HD video), i3, Quad or Duo (for SD video) • RAM: DDR3 4GB or more • Video card: DirectX 9 compatible • Motherboard: Gigabyte GA-Z77X-UD5H motherboard or similar • Hard drive: 250 GB SSD or RAID
Minimum system requirements	• OS: Microsoft Windows XP SP3, Vista, 7, 8, 8.1, 10 • CPU: Pentium 3 class CPU • RAM: 512 MB • Video card: DirectX 9 compatible • Hard drive: 500 MB

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