

Intel® Media Server Studio 2017

Video Quality Caliper Release Notes

(Version 2.3.0)

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Overview

The **Intel® Media Server Studio 2017 - Video Quality Caliper** is a graphical utility for objective and visual quality inspection of encoded or uncompressed videos. The following video formats are supported in this release:

- MPEG2: (ISO/IEC 13818 13818-2 or ITU-T Rec. H.262), 8-bit
- AVC: (ISO/IEC 14496-10 MPEG-4 Part 10 or ITU-T H.264), 8-bit
- HEVC: (ISO/IEC 23008-2 MPEG-H Part 2 or ITU-T H.265), 8/10-bit
- Google* VP8*, 8-bit
- Google* VP9*, 8-bit
- Uncompressed YUV video streams (YV12, I420, NV12, P010, P012, I010{I420 10bit}, I012{I420 12bit}), 8/10/12-bits
- MP4: ISO/IEC 14496-14:2003 video container with AVC/HEVC content
- MKV: Matroska, open source multimedia container with AVC/HEVC/VPx content
- WebM: Google's container, subset of MKV with VP8/VP9 content
- MPEG-TS: ISO/IEC 13818-1, H.222.0, video transmission standard, with AVC/HEVC content

Once bitstreams are loaded, the tool allows the user to calculate several video quality metrics and visually inspect the frame quality.

New Features

Intel® Media Server Studio 2017 – Video Quality Caliper:

Version 2.3.0

- Stream information, performance improvements, faster playback speed;

Version 2.2.0

- Frame offset adjustment, manual color space selection, smoother zoom, YUV histogram, API for custom metrics plugins;

Version 1.8.1

- Data exporting capabilities, FlexLM licensing, BT.709/BT.2020 support, minor stability improvements;

Version 1.7.0

- Container support (MP4, MKV, WebM, MPEG-TS), flexible axis controls, GUI improvements;

Version 1.6.0

- Extended color format support, improved usability and UI, single-view mode, and integration with Intel® Video Pro Analyzer (if installed);

Version 1.5.0

- Split mode in details window, improved usability and playback speed.

System Requirements

Hardware

- CPU supporting Intel® Supplemental Streaming SIMD Extensions 3 (SSSE3) is required.
- 4GB RAM minimum, 8GB recommended for working with larger streams.

Software

- Microsoft* Windows* 7 / 8 / 8.1 / 10, 32-bit;
- Microsoft* Windows* 7 / 8 / 8.1 / 10, 64-bit;
- Linux: CentOS* 6.5 (or newer) for 64-bit architecture or SUSE* Linux* Enterprise Server 12 (or newer) for 64-bit architecture;

Package Contents

<install-folder>

Intel® Media Server Studio 2017 – Video Quality Caliper Release Notes (this file), Intel® Media Server Studio 2017 – Video Quality Caliper User Guide, binary executables, tool's internal and third-party binaries.

Installation

To begin installation:

- Double-click on the executable file to begin installation.

Activation during installation

You must activate the product to finish installation. Use one of these methods:

- Activation using serial number. Internet connection is required;
- Remote activation using serial number. Used when your computer is not connected to the internet. You can use another computer with internet access;
- Activation using license file;
- Activation using license server.
- You can also evaluate the product for 30 days.

Activation after installation

Put the license file in the following default directory:

Under Microsoft* Windows* 32-bit:

c:\Program Files\Common Files\Intel\licenses\

Under Microsoft* Windows* 64-bit:

c:\Program Files (x86)\Common Files\Intel\licenses\

Under Linux* (as root):

/opt/intel/licenses

Under Linux* (as current user):

~/intel/licenses

Known Limitations

Video Quality Caliper has the following known limitations:

- Only progressive, single-view video streams with constant frame sizes are supported. Refer to overview section for the list of supported encoded stream formats / containers.
- Backward repositioning in the encoded streams can cause significant delays for longer video streams depending on the codec.
- Working with multiple encoded streams may require large amounts of memory, insufficient physical memory can potentially cause system-wide freezes for active pagefile usage during VQM calculation; to reduce the memory requirements, user may pre-decode some of the sequences and supply them as YUV inputs, as a possible workaround.
- If the correct path to Intel® Video Pro Analyzer application was not detected properly during installation, the user is advised to run the VPA application manually and restart VQC (disabling restore session flag), this time the path to VPA should be set correctly.

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D3Js

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jQuery

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