

# Intel® Video Pro Analyzer 2015

## Release Notes

(Version 1.6.1)

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## Overview

The **Intel® Video Pro Analyzer** is a graphical coded video bitstream analysis tool, supporting both major next-generation coding standards:

- HEVC: (ISO/IEC 23008-2 MPEG-H Part 2 or ITU-T H.265) , 8/10-bit
- HEVC: RExt extension, 8/10/12-bit, 4:0:0/4:2:0/4:2:2/4:4:4
- Google's VP9, profiles 0,1,2,3, 4:2:0/4:2:2/4:4:0/4:4:4, 8/10/12-bit
- AVC: (H.264/AVC, ISO/IEC 14496-10, MPEG-4 Part 10) , up to High profile (except MBAFF support), 4:2:0, 8-bit
- MPEG2 (ISO/IEC 13818-2 Part 2), 4:2:0/4:2:2, 8-bit
- MKV container support
- MP4 container support
- MPEG2 TS container support

Once a bitstream is loaded, the tool allows the user to inspect each major step of the decode process visually and numerically, and the structure of the coded image can be explored. This data can be used as a visual reference when learning about HEVC/VP9 or when debugging a particular encoder or decoder.

## New Features

## Bug Fixes

- AVC: fixed SE tooltips
- AVC: fixed uninitialized second field type
- VP9: fixed transform block GUI representation scaling

- VP9: fixed crash when starting playing in some cases
- HEVC: fixed wrong chroma coeffs representation in detail mode for 4x4 TU

## System Requirements

### Hardware

- 1GB RAM minimum, 4GB recommended when loading 4K pictures.

### Software

- Microsoft\* Windows\* 7, Microsoft\* Windows\* 8, Microsoft\* Windows\* 8.1, 32-bit/64-bit.
- Ubuntu\* Linux\* 12.04 and higher
- Mac\* OS X\* 10.9

## Package Contents

<install-folder>

Intel® Video Pro Analyzer Release Notes (this file), Intel® Video Pro Analyzer User Guide, licenses, binary executables, tool's internal and third-party binaries.

## Installation

1. For Linux\* and Mac\* OS X\* extract files from the .tgz or .dmg file to the target hard drive.  
For Window\* use package installer.
2. Binary executable is located in the installation folder.
3. License file should be located in the Intel® Video Pro Analyzer installation directory.

Put the license file in the following default directory under Mac\* OS X\*:  
/Users/Shared/Library/Application Support/Intel/Licenses .

## Known Limitations

The Intel® Video Pro Analyzer has the following known limitations:

- 32-bit version of tool may not be able to work with streams of high resolution. It is recommended to use 64-bit version of tool for 4K and higher resolution streams.
- Supported containers for VP9 are IVF and WebM (MKV) only.
- HEVC HRD buffer fullness uses only Type II bitstream for visualization.
- Archive yuv files (\*.zip, \*gz) fully unpacked in memory currently, huge files could require a lot of memory.

- For zip files only first file in archive is considered to be used as compressed yuv file. Only deflate and store compression methods are supported.
- Archived y4m files are not supported yet.
- Extracting NAL from MPEG2 TS can give incorrect extracted NAL unit.
- AVC has only beta support for now. This means some features can be incomplete. Detail modes are not fully implemented.
- AVC decoding does not support gaps in frame\_num and slice groups currently.
- AVC does not support MBAFF streams for now.
- MPEG2 has only beta support for now. This means some features can be incomplete or work improperly. Output yuv can be differ from reference as allowed by standard. There are a set of streams that have bigger difference under Mac\* OS X\*.

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## Attributions

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For details, please refer to <http://qt-project.org/doc/qt-5/licensing.html> for specific details.

### Zlib

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.8, April 28th, 2013
```

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## Qwt

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Version 1.0, January 1, 2003

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