



PRODUCT BRIEF
Intel® Video Pro
Analyzer 2014

H.265
HEVC

VP9

Intel® Video Pro Analyzer 2014

Detailed HEVC & VP9 Software Analysis and Debug

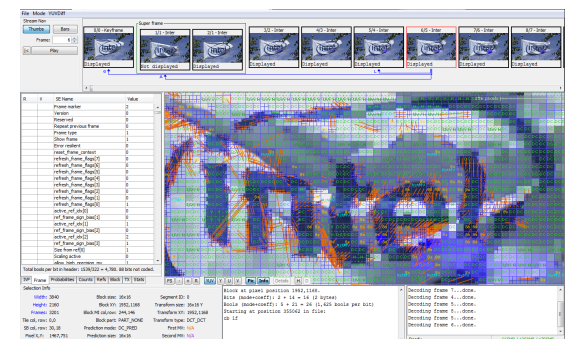
Intel® Video Pro Analyzer 2014 is a comprehensive suite of video analysis software tools for the HEVC and VP9 video coding standards. It allows for visual inspection of the complete decoding process, statistics extraction, debug tools and more. Support is available for Microsoft Windows*, Linux* and OS X* systems.

Significantly Reduce Time Developing Compliant Video Products

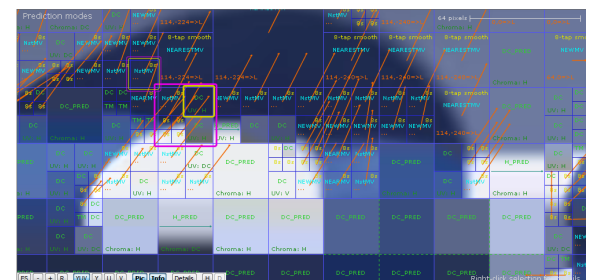
Intel Video Pro Analyzer 2014 helps video professionals and developers save significant time and money developing next generation video compliant products. Easy to use with advanced features, the Intel Video Pro Analyzer enables developers to graphically analyze coding flow, heat maps, motion vectors, prediction processes and more. This removes entire steps and iterations in the overhead in development and testing new encoders, building new video players, and comparing implemented next generation video solutions. Once a bitstream is loaded, the tool allows users 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 easily be used when debugging a particular encoder or decoder, or when researching the inner workings of next generation codecs.

HEVC and VP9 Bitstreams

With bandwidth becoming a major cost to network streaming and infrastructure, the use of next generation codecs like HEVC and VP9 will become essential future parts of video, streaming, content delivery, broadcast, and advertisements. Developers, video professionals, and researchers need tools like the Intel Video Pro Analyzer to deeply investigate the complex next generation coding pipeline with unprecedented visualization.



The console instantly communicates inter-frame dependencies, syntax details, and offers 9 frame-level visualizations



Prediction modes and inter-frame dependencies are instantly visualized; color coding designates each of the prediction types.

Features and Details Needed

The Intel Video Pro Analyzer is the only way to debug certain quality and functional failures in your transcoding pipeline, potentially saving months of man hours on important video projects. Quickly identify poor encoder decisions resulting in loss of quality early on in the encoder development process.

Supported Features

Intel Video Pro Analyzer 2014 Supported Features:

- **Bitstreams:** 8-bit and 10-bit HEVC (ISO/IEC 23008-2 MPEG-H Part 2 or ITU-T H.265) and 8-bit VP9. Support for range extensions will be available when they are adopted by standards
- **Operating Systems:** Microsoft Windows*, Linux*, OS X
- **Full-frame Visualization Features:** Coding Flow, Coding Unit, Suberblock, Motion vectors, Transform Unit, Prediction Unit, Prediction Information, Reconstruction Information, Residual Information, Deblocking edges, SAO Information, Frame references
- **Detailed Views:** Reconstructed, Predicted, Residual, Deblocked/SAO, and Decoded pixels
- **Visual Maps:** Heat Map (bit per pel), Efficiency Map (bools per bit)
- **Other key features:** YUV Compare, Picture Statistics (weighted by pixel or bit), Probability arras and trees with counts, updates, and adaptation, Entropy Engine State, Syntax Elements, Inter/intra prediction and Filtered Samples views, Motion Vector Predictor Lists, Coefficients (pre and post quant and post-transform scan order)
- **Detailed Documentation:** Documentation, a user forum, and technical support help get developers up and running with Intel Video Pro Analyzer.

The Video Analyzer tool built for tomorrow's applications

Whether you are targeting next generation HD video wireless display, mobile broadcast, mobile devices playback or web streaming solutions and applications, utilizing the Intel Video Pro Analyzer 2014 to develop, research, or enhance HEVC or VP9 video codecs will save video professionals time and money. Download a free trial version today at:

intel.com/software/mediasdk/analyzer

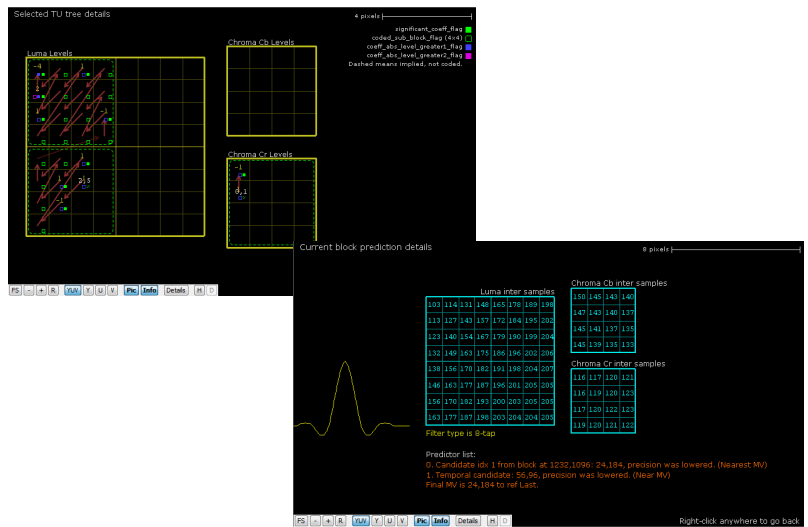


Image above: Right click on any transform unit (left) or prediction unit (right) and discover the underlying coefficients and the in-flight details of each of complicated processing pipelines.

Download the free trial version today:
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