VQ Probe

#MEASURE
#ASSESS
#IMPROVE

VQ Probe is a professional visual instrument for objective and subjective video quality probation. It supports commonly used quality metrics and modern standards. The key usage model is to compare two implementations of the same codec standard or two different revisions of a codec. Furthermore, it also allows users to compare between different codec standards building RD curves and calculating BD Rate. It offers all these goodies while remaining free and easy to use.
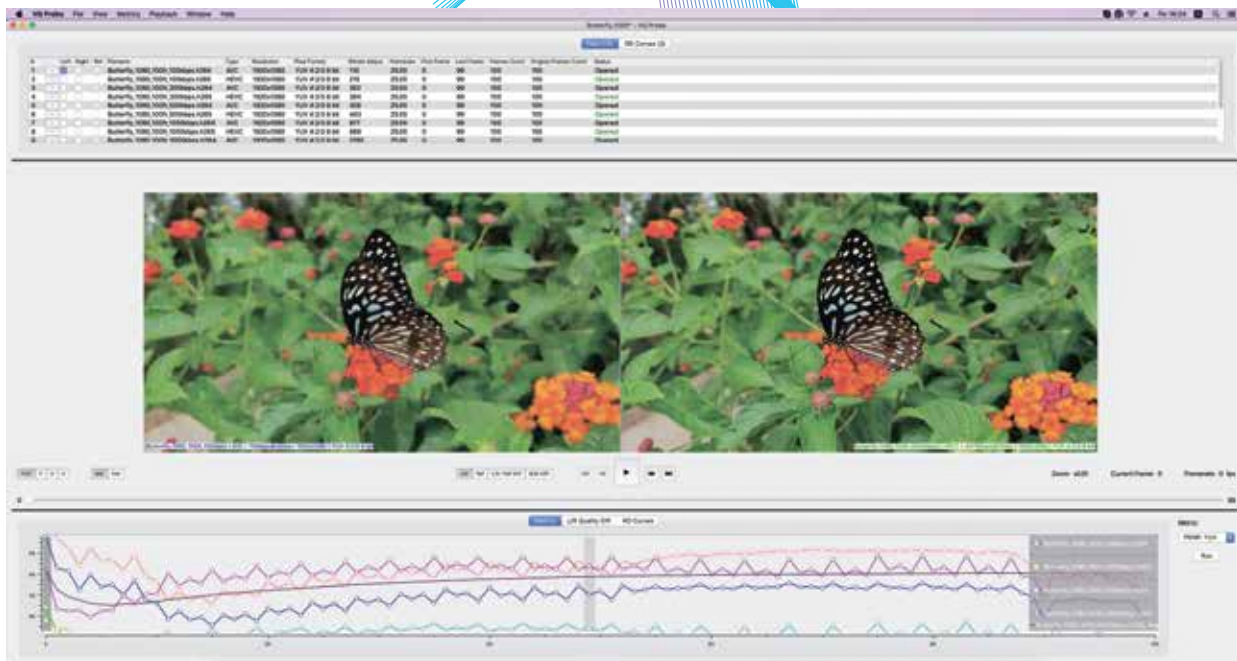
Advantages

» Objective & subjective assessment of video quality
» Convex hull for Adaptive streaming
» Buffer view
» Metrics in Region of Interest (ROI)
» Player for elementary video streaming
» Simple and user-friendly interface

Key features

» Visual and pixel analysis
» Command line
» Metrics data import (from cache) and export
» RD-curve plots and calculates BD-Rate
» Split-line with an overlapped view and independent view
» Heat Map and Black White difference
» Source files trimming
» Looped playback
» Visualization of the difference between the encoded and the reference files
» Zoom in and zoom out video
» Available for Mac, Windows, Linux
» Unlimited files in a single project
» Scene change detection
» Supporting most popular metrics, including PSNR, SSIM, VMAF
» Video playback of 2 videos
» Metrics visualization
» Frame cropping
» 4K support
» Zoom down to pixel values

⚙ Technical characteristics

Supported elementary video formats:
- ≫ AVC / H.264
- ≫ HEVC / H.265
- ≫ VVC / H.266
- ≫ AV1
- ≫ MJPEG

Supported uncompressed formats:
- ≫ YUV
- ≫ Y4M

Supported Chroma Subsampling:
- ≫ 4:2:0
- ≫ 4:2:2
- ≫ 4:4:4

Supported Bit Depth:
- ≫ 8 bit
- ≫ 10 bit

System requirements:
OS: Windows 10, Mac OS 10.14+, Ubuntu 18.06+, CentOS 7.0
RAM: for 4K resolutions 16Gb is highly recommended.

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