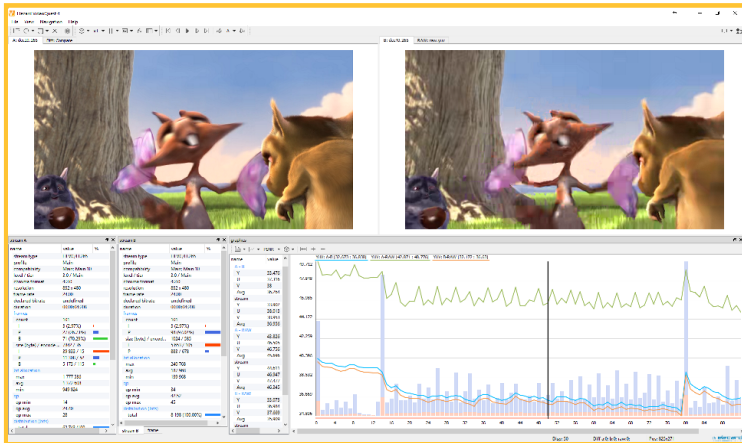


Elecard Video Quality Estimator

Video Quality Estimator allows the user to calculate video quality metrics, such as PSNR, MSAD, MSE, SSIM, Delta, VQM, APSNR, NQI, VMAF and VMAF phone, to compare two streams with referenced RAW data, analyze differences and identify the code portion causing the quality change.



Key features

- Calculation of quality metrics: PSNR, MSAD, MSE, SSIM, Delta, VQM, APSNR, NQI, VMAF and VMAF phone
- Display of essential statistics of encoded streams
- Automatic selection of the similar first frame in two streams for analysis synchronization
- Selection of ROI (region of interest) for metrics calculation
- Visual comparison of two encoded streams
- Display of comparison results in graphs: quantizer, frame size, bit allocation
- Bit distribution display
- Binding mode
- Team work: sharing comments between application instances
- Automation through Command Line Interface

Elecard Video Quality Estimator

Application

- Compare two encoder versions
- Optimize your encoder
- Localize distortion
- Evaluate noise reduction efficiency
- Analyze the quality of encoded video against referenced RAW stream



SPECIFICATION

Video formats	AV1, VP9, H.265/HEVC, H.264/AVC, MPEG-1/2
Containers	MP4, MKV, AVI, FLV
RAW formats	I444, IYUV, NV12, NV21, P444, RGB24, RGB32, UYVY (Y422, UYNV, HDYC), V210, V400, Y42B, YUY2 (YUNV, V422, YUYV), YV12, YV16, YVYU, Y4M

Related product

Elecard StreamEye Studio

A full set of Elecard software analyzing tools for professional comprehensive analysis of numerous video parameters.

Synchronization and sharing comments between applications.

- **Elecard Stream Analyzer** MP4, MKV, AVI. FLV and TS analysis
- **Elecard StreamEye** Detailed ES analysis
- **Elecard Video QuEst** Two encoded streams comparison
- **Elecard YUV Viewer** YUV data sequence
- **Console applications** Command line tools for automation