A suite of software modules
for advanced video processing workflow

VQC – VideoQ Colorator™

Demo Presentation

October 2025

VideoQ HDR ⇔ SDR Conversion Tool

Software tool for on premise and cloud tasks

VQC

videoq.com

TOC <

Click on TOC n the upper-left corner of any slide for this Table Of Contents

Table of Contents

TOC

1. VQC Demo Samples for Online Preview and Download

1. Example of **HDR-PQ** to **SDR** conversion

Click to start DropBox Preview/Download:

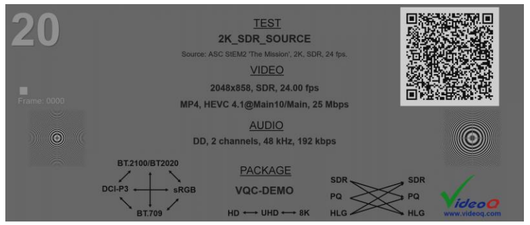
- HDR Source: UHD 16:9 120fps **HDR10** BT.2020, 4 min long fragment of Netflix Open Content ‘Nocturne’ MP4 clip
- SDR Output: HD 16:9 60fps, **SDR** BT.709, 4 min long MP4 clip

2. Example of **SDR** to **HDR-PQ** conversion

Click to start DropBox Preview/Download:

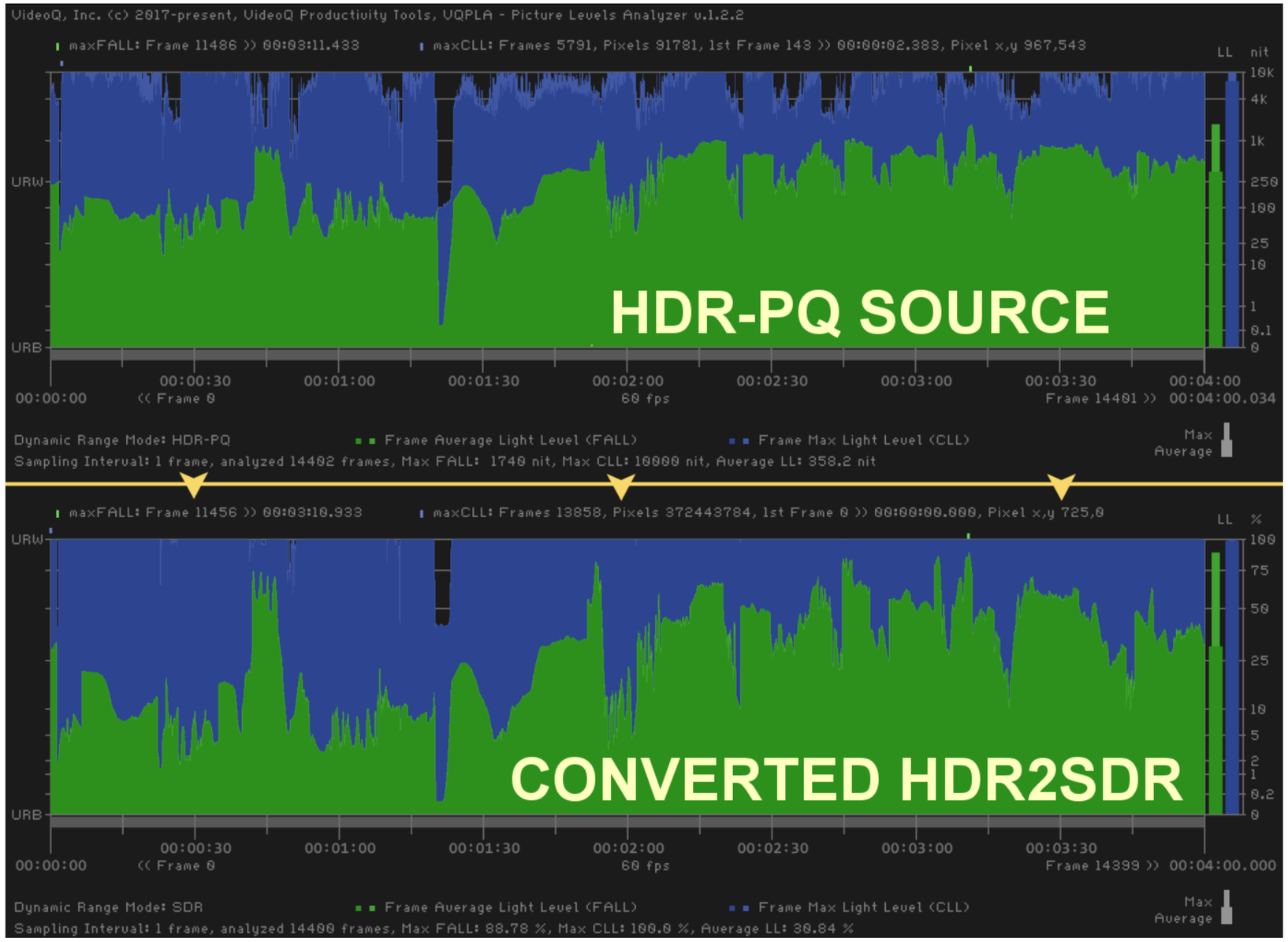
- SDR Source: 2K 2.39:1 (2028x858) 24fps **SDR** BT.709, 5 min long fragment of ASC StEM2 ‘The Mission’ MP4 clip
- HDR Output: 2K 2.39:1 (2028x858) 24fps, **HDR10** BT.2020, 5 min long MP4 clip

Each demo clip starts with standard VideoQ 20s long leader, consisting of:
10s long Text Box with QR code, 8s of VQCB Test Pattern and 2s Black.



TOC

2. VQC Demo Files Part 1 – From HDR to SDR



The ***top half*** of the image on the left is the **Light Levels Profile** of Netflix ‘Nocturne’ clip, UHD HRD-PQ 4 min long ***input*** fragment aka **HDR-PQ Source**.

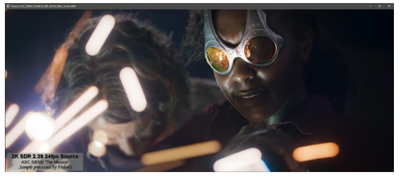
The PNG plots are created by VideoQ **VQPLA** analyzer.
- X axis is timeline,
  time code values are printed underneath
- Y axis logarithmic scale is in
  PQ LL nits (cd/sq.m) or SDR LL percents.

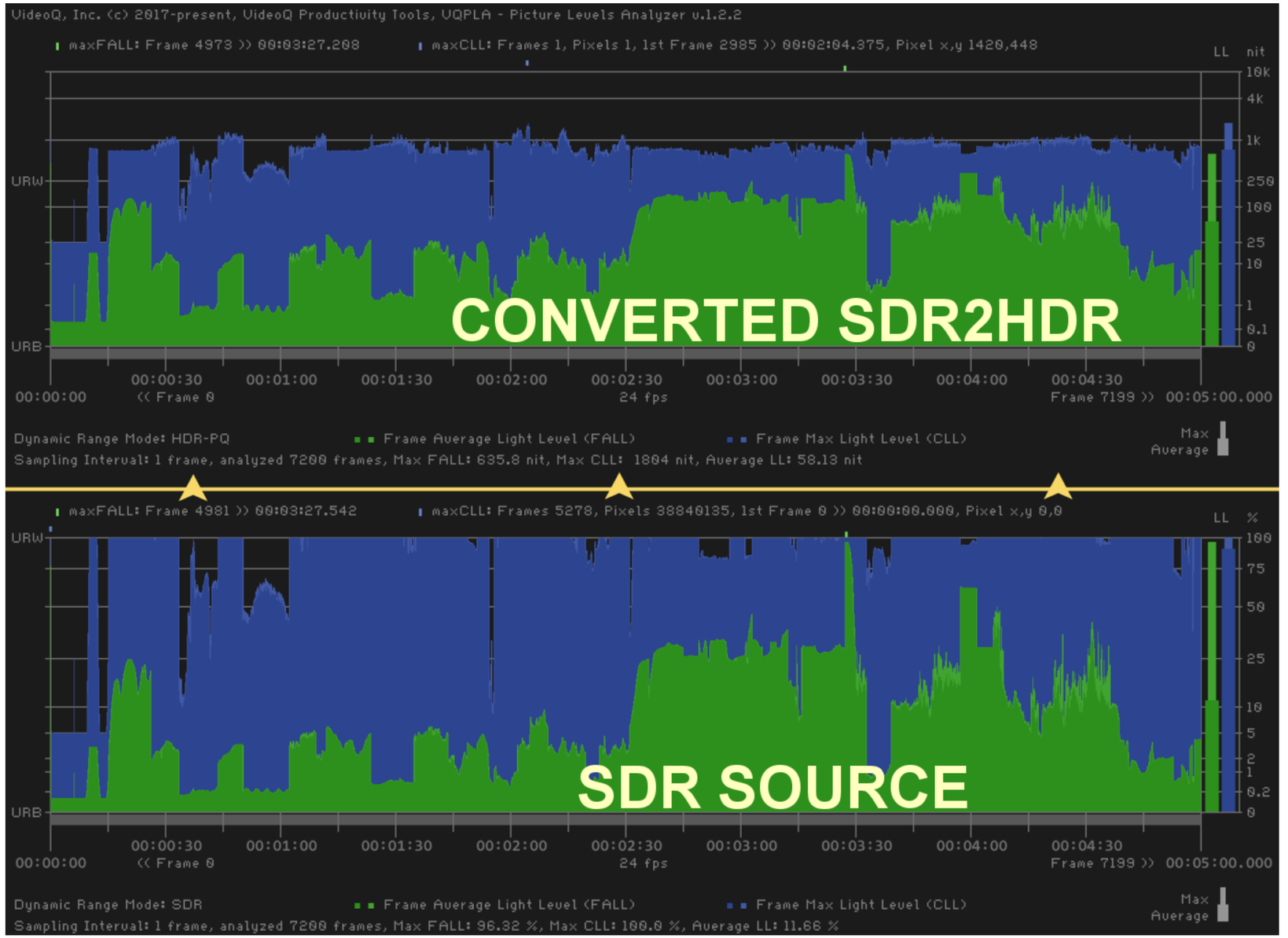
Light Levels are calculated frame-by-frame.
FALL values are in **Green**,
CLL values are in **Blue**.
Bars on the right show statistical Max and Average values for FALL and CLL profiles.

The ***bottom half*** of the image on the left is the **Light Levels Profile** of Netflix ‘Nocturne’ clip, HD SDR 4 min long ***output*** fragment aka **Converted HDR2SDR**.

TOC

3. VQC Demo Files Part 2 – From SDR to HDR





The ***top half*** of the image on the left is the **Light Levels Profile** of StEM2 ‘The Mission’ clip, HD HRD-PQ 5 min long ***output*** fragment aka **Converted SDR2HDR**.

The PNG plots are created by VideoQ **VQPLA** analyzer.
- X axis is timeline,
  time code values are printed underneath
- Y axis logarithmic scale is in
  PQ LL nits (cd/sq.m) or SDR LL percents.

Light Levels are calculated frame-by-frame.
FALL values are in **Green**,
CLL values are in **Blue**.
Bars on the right show statistical Max and Average values for FALL and CLL profiles.

The ***bottom half*** of the image on the left is the **Light Levels Profile** of StEM2 ‘The Mission’ clip, HD SDR 5 min long ***input*** fragment aka **SDR Source**.

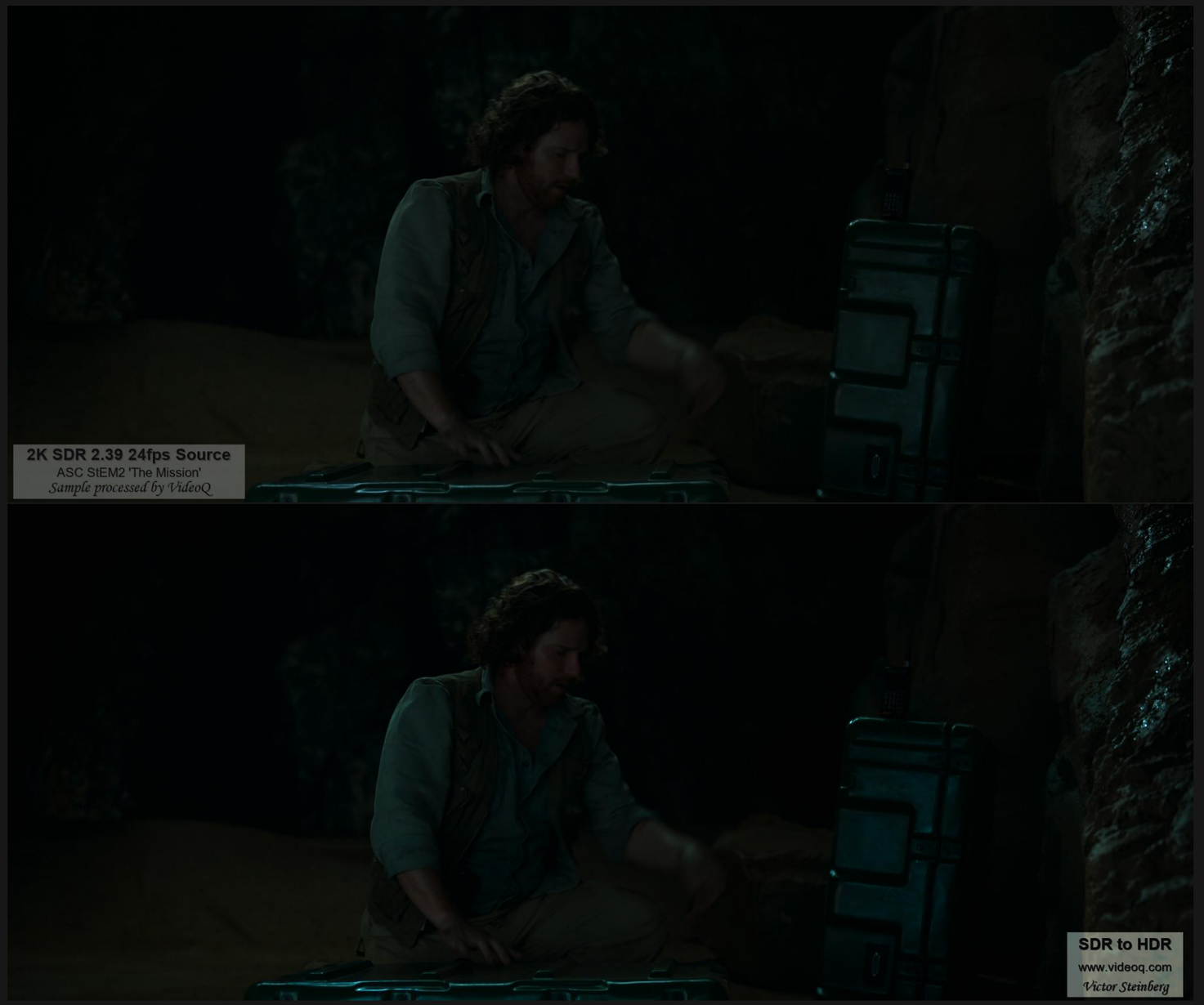
TOC

4. SDR to HDR Demo Screenshots 1

Top image: **SDR** Source. Bottom image: Converted **HDR** Output.

TOC

5. SDR to HDR Demo Screenshots 2



Top image: **SDR** Source. Bottom image: Converted **HDR** Output.

TOC

6. SDR to HDR Demo Screenshots 3

Top image: **SDR** Source. Bottom image: Converted **HDR** Output.

TOC

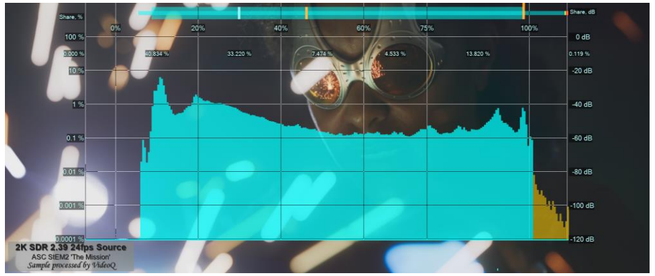
7. SDR to HDR Demo Screenshots 4

Top image: **SDR** Source. Bottom image: Converted **HDR** Output.

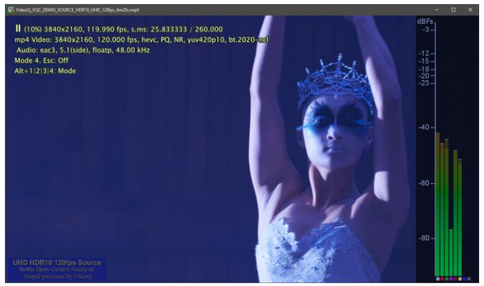
TOC

8. VQC and Related VideoQ Tools

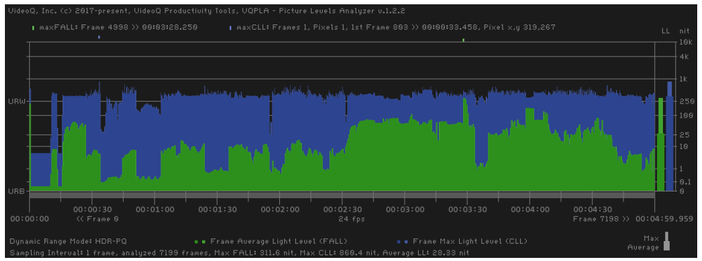
Other VideoQ products with HDR support:



VQV – HDR / SDR Multi-format Media Files Viewer/Player/Analyzer/Converter

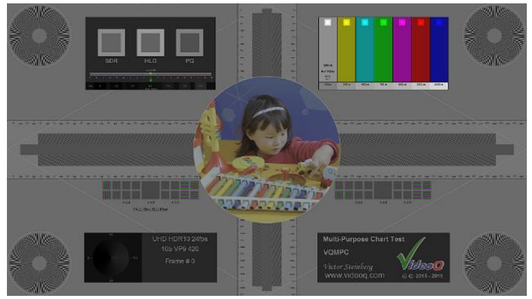


VQMP – Advanced QA/QC Media Player compatible with **VQV** Viewer-Analyzer



VQPT – VideoQ Productivity Tools, suite of analysis and processing software modules

VQPLA – Picture Levels Analyzer (**VQPT** module)



VQL – Comprehensive Library of sophisticated Test Patterns and Sequences

TOC

9. About VideoQ

Customers & Partners

Company History

- Founded in 2005
- Formed by an Engineering Awards winning team sharing between them decades of global video technology.
- VideoQ is a renown player in calibration and benchmarking of Video Processors, Transcoders and Displays, providing tools and technologies instantly revealing artifacts, problems and deficiencies, thus raising the bar in productivity and video quality experience.
- VideoQ products and services cover all aspects of video processing and quality assurance - from visual picture quality estimation and quality control to fully automated processing, utilizing advanced VideoQ algorithms and robotic video quality analyzers, including latest UHD and HDR developments.

Operations

- Headquarters in CA, USA
- Software developers in Silicon Valley and worldwide
- Distributors and partners in several countries
- Sales & support offices in USA, UK