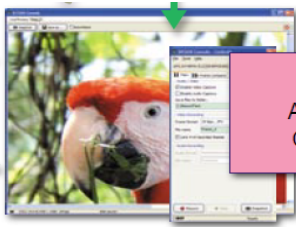
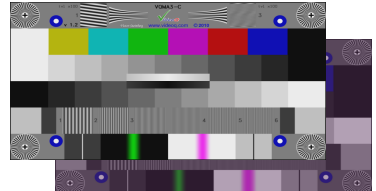


# VQTS-300 – Stream & Video Quality Analysis System



Monitor,  
Analyze &  
Compare



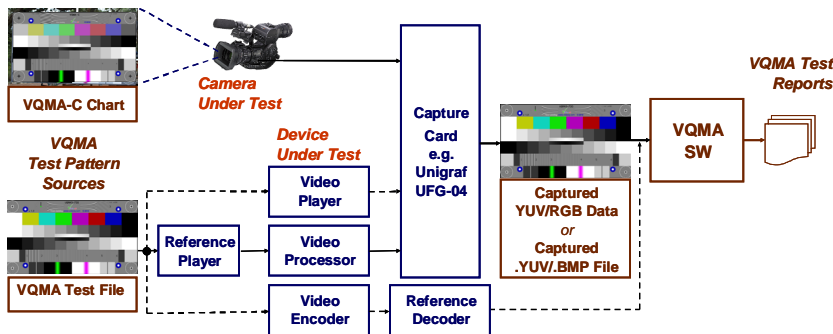
PASS / FAIL

## Compact PC with DP, HDMI or LVDS Grabber, Stream Analyzer and Video Quality Analyzer

- VQTS-300 is a self-contained solution, combining grabber, powerful stream analysis tools and image quality analyzer
- Ideal tool for development labs, software developers and high volume manufacturers
- Easy-to-use tool, instantly revealing your link status, video camera or other video device performance
- User-selectable reporting modes: a) machine-readable file with Pass/Fail marks, b) detailed multi-page PDF document
- Manual and automated performance measurement of video links, video cameras and/or video processors
- Via optional SDI-HDMI adapter VQTS-300 measures the performance of 3G-SDI/HD-SDI video processors



## VideoQ brings the proven reliable objective analysis methodology to 21<sup>st</sup> Century video QA/QC environment



### Analyzed Parameters

- **Geometry:** Scaling, Position, Tilt, Keystone
- **Levels:** Black, White, Color Balance, Gamma
- **H & V Shading** (Levels Spatial Uniformity)
- **Frequency Response:** in dBs vs. scalable tvl
- **UV vs. Y Gain** (Color Saturation)
- **K-rating** on needle pulse
- **Comprehensive Noise Analysis**

### Features

- Software executable under Windows™ (XP, Vista, Windows 7)
- Auto-analysis on the companion VQMA-C Matrix Test Pattern
- VQMA-C formats: Optical Chart, File, Test Signal, Test Stream
- Built-in Software Scope: YUV/RGB waveform monitor
- Noise Measurement and Scope work on any static YUV/BMP image
- Windows GUI mode for R&D and product verification
- DOS batch mode for automated QA/QC operation

### Resolutions supported

- **Y YUV:** 1280x720 or 1920x1080
- **Y BMP:** any size from 640x480 to 1920x1200

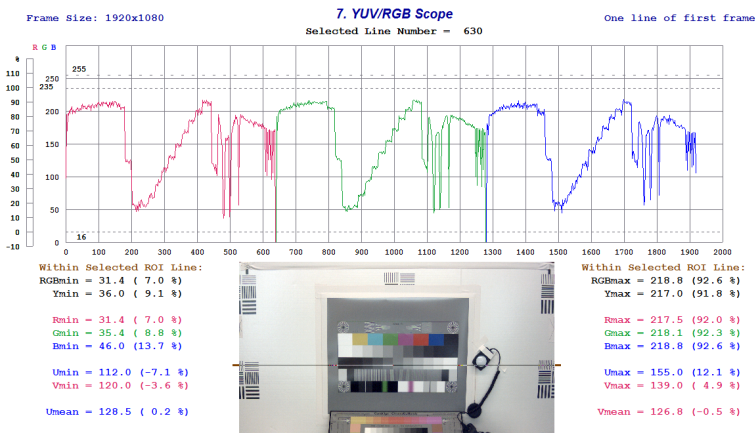
*Images of any size smaller than 1920x1080 are analyzed within 1920x1080 frame*

### Input File Format

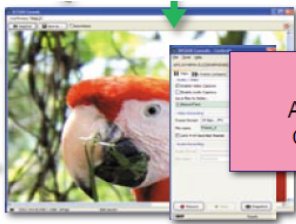
- **.YUV** 4:2:2 progressive UYVY multiplex  
Single frame or Multi-frame (at least 8 frames)
- **.BMP** 24 bit per pixel, single frame

### Noise Analyzer Features

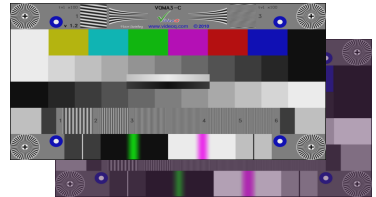
- **Y SNR:** unfiltered, band-limited and weighted
- **UV, R, G, B** and "Dark B" SNR values
- **Y Noise Spectral Density** plots in dB/MHz
- **Noise Image**, +24dB boost for better visibility
- **Y, R, G, B Noise Histograms** Display
- **Reference true Gaussian noise curve** overlay
- **0.1 dB accurate SNR** measurement
- **SNR Read-out** matching industry standard tools
- **Noise estimate (+/-3dB)** on single YUV frame



# VQTS-300 – Stream & Video Quality Analysis System



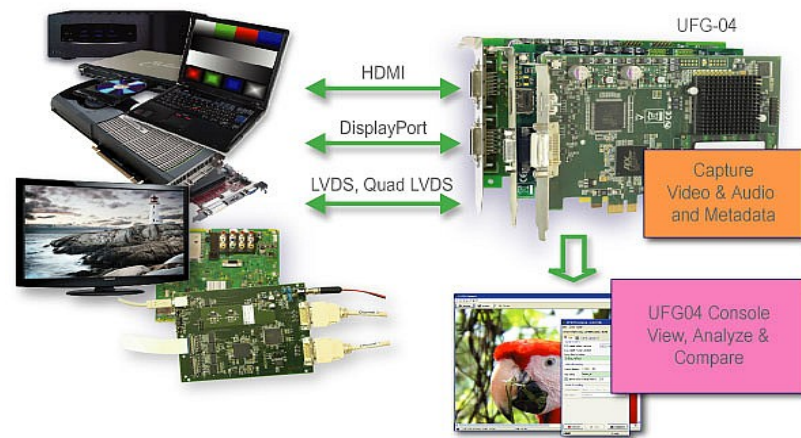
Monitor,  
Analyze &  
Compare



PASS / FAIL

## Fast and effective tool for source equipment testing and video data fidelity verification

- Unigraf UFG-04 series capture cards support HDMI, DVI, DisplayPort™, LVDS, Quad-LVDS, or mini-LVDS – order option
- Live preview and multi-frame capture of video and audio data in a variety of formats, up to WQXGA (2560 x 1600)
- UFG-04 software compares video data to the original material – bit by bit, pixel by pixel, frame by frame
- DP 1.1, HDMI 1.3 and DVI 1.0 compliance, HDCP decryption engine for receiving protected audio and video content

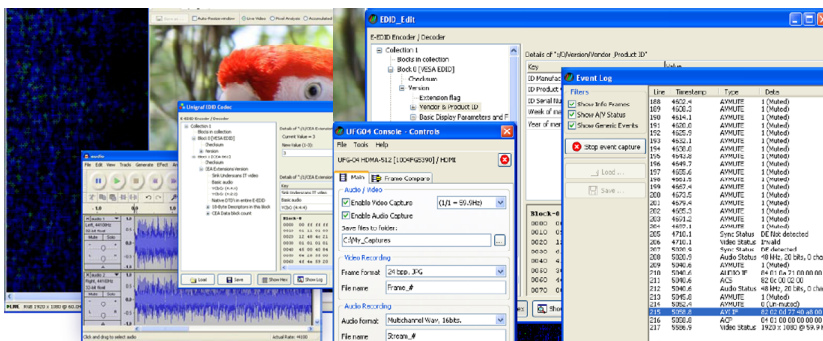


## UFG-04-HDMA card (HDMI sink) features

- **Bandwidth:** 225 MHz maximum TMDS clock
- **Color Modes:** up to 36-bit RGB/YCbCr 4:4:4
- **Audio:** 192 kHz, PCM 2/8, Dolby Digital+, DTS, DTS96/24, DTS HD, Dolby TrueHD
- **Capture:** YUV, BMP, PPM, PNG, RAW, JPG, ASCII, 8 channels 24 bit LPCM
- **HDMI Link Status and Metadata**
  - Video Status, Audio Status, Sync Status
  - SPD and ACS
  - InfoFrames

## UFG04 Console Software

- **EDID parser / programmer / editor:** CEA & VESA E-EDID versions 1.3 and 1.4
- **Frame Level (CRC) comparison**
  - Input frame vs. previous
  - Captured frame vs. reference
- **Pixel Level comparison**
  - Input frame vs. previous
  - Captured frame vs. reference
  - Accumulated multi-frame errors display
- **Event Log:** Time stamped EDID and Status Log



VideoQ, Inc. – California-based company, focused on video test & measurement and video enhancement technologies, products and services. More than 50 man-years of award-winning experience in the field of Broadcast, Consumer Electronics, Transcoding and Video Data Compression.

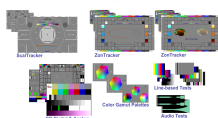
VideoQ is a renown player in calibration and benchmarking of Displays, Video Projectors, Transcoders, Graphics and Video Processors, instantly revealing artifacts, problems and deficiencies, thus raising the bar in video quality experience.

Other related VideoQ products:

VQDM-100



VQL



VQTS-200



VQMA-3



VQS-300

