

## **DESKTOP QUALITY CONTROL, File based or live media QC and monitoring software with full logging facilities**

- ✓ **SD & HD media files in most formats & TV standards**
- ✓ **Playback with video, audio, waveforms and error reporting**
- ✓ **Log reports with timecode and thumbnails**
- ✓ **Multiple displays of video, audio and surround sound parameters**
- ✓ **Works with capture devices or cards for live source monitoring**
- ✓ **Checks for broadcast illegal gamut, letterbox, pillar-box etc**
- ✓ **32+ different video & audio test performed simultaneously**
- ✓ **Scans media files faster than play-speed, faster than real-time**
- ✓ **User customizable displays and report options**
- ✓ **Option for PSE flashing testing / certification to Ofcom / REC BT1702**

**Reel-Check** is a suite of programs that run on a performance Windows PC without special hardware. The **Solo-QC** version is intended for individual desktop use. It performs a complete set of quality control tests on any audio/video media content.

Reel-Check **Solo-QC** can work with all professional video formats including uncompressed component types or RGB 4:4:4, all standard and high definition dimensions. Files can also be in any compressed type, subject to a suitable Codec being available. sub-broadcast formats and 2K can also be handled as well as SD & HD. It can even work with 4K sources.

Embedded audio, stereo or multi-channel surround-sound can be extracted and checked alongside the video for audible or visual impairments on a frame by frame basis.

**Solo-QC** also has the facilities waveform and vectorscope software display as well as image monitors.

The product is capable of automated checking ingested or finished file content on local or network drives. The user can set a table of the test parameters and tolerances, and any excursions outside these defined limits are logged with associated timecodes and detail notes. Also a thumbnail image at the time of detected events can be inserted in the easy to read, RTF-formatted log.

The log file can either be stored locally on the Reel-Check's host computer or a networked drive for subsequent scrutiny or printing. Reel-Check logs can be easily further edited in 'Word' or any other common word processor as required.

Reel-Check **Solo-QC** uses highly sophisticated image processing algorithms and audio analysis engines. The software checks for visual impairments in baseband-decoded video and audio problems due to poor encoding, degradation or originating from the encoded source content.

Each test can be enabled or disabled by the user from a simple menu. The test parameter 'sets' can be saved or recalled from profiles. Thus a specific profile can be standardised or passed from manager to operator etc. With media-files, the test operation can either be run at normal play-speed or faster than real-time.

For live sources on HD-SDI or HDMI, **Solo-QC** will work with most PC compatible capture cards or devices as well as DV or HDV over firewire. QC of taped media can be tested in this configuration with timecode readouts.

For each test parameter, an alarm or software GPI can be set-up. If those set events are detected, an on-screen message alerts the operator or some external process or operation can be triggered.

As well as displaying any combination of Video and waveforms of the operator's PC monitor or dual monitors, the software can be configured to playout Video to a SDI, HD-SDI or HDMI interface card for connection to TV monitor or other equipment.

## VIDEO CHECKS

- ✓ Gamut checks
- ✓ Field dominance/reversal
- ✓ Black frames
- ✓ APL Average Picture Level
- ✓ Blocking artifacts
- ✓ Stuck frames
- ✓ Odd frames
- ✓ Blank or colored frames
- ✓ Cuts detection
- ✓ Quantisation
- ✓ Noise S/N
- ✓ Focus
- ✓ H Blanking
- ✓ Letter Box detection
- ✓ Pillar Box detection
- ✓ Colour Balance
- ✓ Colour Bars
- ✓ TC discontinuities
- ✓ Interlace Present
- ✓ Half Lines
- ✓ Aspect ratio
- ✓ Contrast
- ✓ Monochrome
- ✓ Picture Shifts
- ✓ Pixel Format Checks
- ✓ Flashes \*

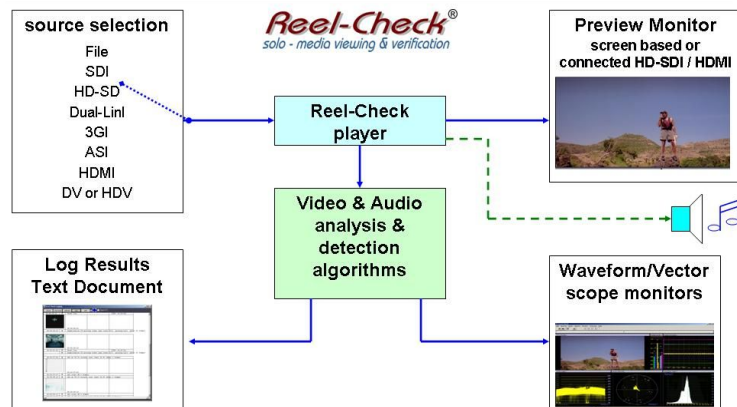
## AUDIO CHECKS

- ✓ Loudness
- ✓ Over Loud
- ✓ Silences
- ✓ Out of Phase channels
- ✓ Stereo balance
- ✓ Audio format
- ✓ Tone detection

## Live Displays

- ✓ Video Waveform
- ✓ Video Vectorscope
- ✓ YRGB Histograms
- ✓ RGB Parades
- ✓ YUV Parades
- ✓ Gamut Display
- ✓ Picture Monitor
- ✓ RGB Images
- ✓ Luminance only (mono)
- ✓ Chrominance Only
- ✓ Audio bar levels
- ✓ Audio waveform 1- 16 chan
- ✓ Audio 'vectors' phase
- ✓ Audio phase balance
- ✓ GMO Surround Sound
- ✓ Audio Spectrogram
- ✓ Alarms and ✓ Logging

## Reel-Check basic operation when logging



## Typical Applications

- Quality Control
- Pre/post colour correction
- Broadcasters' compliance and standards
- Media asset management
- Reviewing media file inventories and manifests
- Ingest facilities
- Rushes evaluation
- Playout, transmission or streaming
- Post Production
- Archive management
- DVD creation, manufacturing and distribution
- Live feed / broadcast monitoring
- Equipment test, etc.

## File Types Supported (subject to Codecs on PC)

### As standard

AVI  
WMV  
MOV  
MPG, M2V, M2T  
VOB  
FLV (adobe flash)  
CineForm  
MXF, QT, MOV  
IMX50  
Mpeg4, H264, VC1

### With options

QT, MOV IMX30  
MXF extended types  
GXF  
OMF  
DPX  
etc...

Reel-Check is supplied on a USB memory dongle, which also contains the system licence.

\* Option RC-PSE for PSE Flash testing

[www.cel-soft.com/reel-check](http://www.cel-soft.com/reel-check)

For More Information or Demonstration Contact Sales



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