



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

- ▶ **SD & HD media files in most formats & TV standards**
- ▶ **Batched operation of any number of sources**
- ▶ **Log reports with timecode and thumbnails**
- ▶ **Video, audio, surround sound parameters**
- ▶ **Monitors pictures, waveform and data**
- ▶ **Drag & drop or watch folder file operation**
- ▶ **Sequential schedules for media files**
- ▶ **Metadata decoding & logging**
- ▶ **Full results automatic emailer**
- ▶ **Checks for broadcast illegal gamut**
- ▶ **Checks for letterbox, pillar-box**
- ▶ **21+ different video checks performed simultaneously**
- ▶ **Can accept live source & IP feeds**
- ▶ **Option for PSE Flashing testing**

**Reel-Check** is a suite of Windows programs that run on a standard PC without special hardware. It performs a complete set of quality control tests on any audio/video media content. The software is designed to operate either automatically or be run under direct user control and can be used as a networked facility.

Reel-Check can work with all professional video formats including uncompressed component types or RGB 4:4:4, standard and high definition format, in most any compression scheme can be checked, subject to a suitable Codec being available. 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.

The product is capable automated checking ingested or finished file content on local or network drives. A watch folder facility allows any network user with access to the folder the ability to queue a programme for test. Reel-Check has a scheduler of tasks that interactively manages the overall function and summarises the eventual results.

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 RTF-formatted log.

The log file for each item is stored on the Reel-Check host computer for subsequent scrutiny or printing. Optionally, these can be sent automatically as email attachments to whoever needs to see the results. Reel-Check logs can be easily further edited in Word or any other common word processor as required. There is also a summary log generated with all the pass/fail results from all the items in the schedule batch.

As well as standard video and audio measurements, a series of additional parameters can be checked as the need arises. It can parse associated metadata linked to a media file and check its accuracy against the content. Running times, aspect ratios, sound formats and so on can be confirmed, with the results reported back.

Reel-Check uses highly sophisticated image processing algorithms and audio analysis engines. Each test can be enabled or disabled by the user from a simple menu. The tests can either be applied globally to all sources in the schedule or individually set for each item.

Reel-Check is not intended to report the MPEG or other compressed formats numerical or protocol analysis. It does check for visual impairments in baseband-decoded video and audible problems due to poor encoding, degradation or originating from the encoded source content.

## VIDEO CHECKS

- ✓ Gamut checks
- ✓ Black frames
- ✓ APL Average Picture Level
- ✓ Blocking artifacts
- ✓ Stuck frames
- ✓ Odd Frames
- ✓ Cuts detection
- ✓ Quantisation
- ✓ Noise
- ✓ Focus
- ✓ Pixel format
- ✓ Letter Box detection
- ✓ Pillar Box detection
- ✓ White Balance shifts
- ✓ Colour Bars
- ✓ TC discontinuities
- ✓ Interlace Present
- ✓ Half Lines
- ✓ Aspect ratio
- ✓ Monochrome
- ✓ Picture Shifts
- ✓ Pixel Format Checks
- ✓ Flashes \*

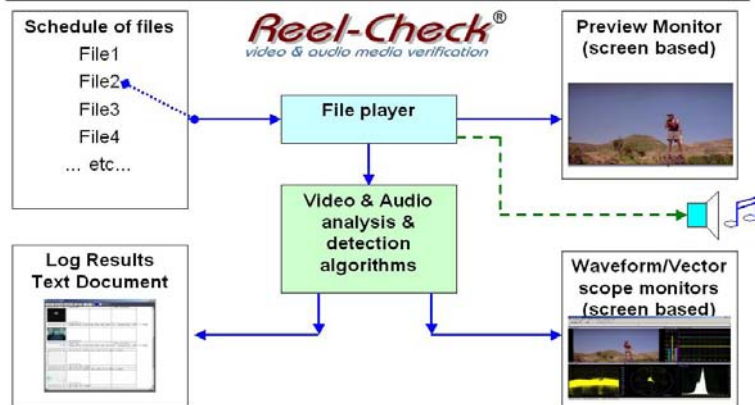
## AUDIO CHECKS

- ✓ Over Loud
- ✓ Silences
- ✓ Out of Phase channels
- ✓ Stereo balance
- ✓ Audio format
- ✓ Tone detection
- ✓ Hum Detection
- ✓ Click detection

## Live Displays

- ✓ Video Waveform
- ✓ Video Vectorscope
- ✓ Luminance Histogram
- ✓ 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
- ✓ Logging

## Reel-Check basic operation when logging



## Typical Applications

- Quality Control
- 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
- Pre/post colour correction
- Live feed / broadcast monitoring
- Equipment test, manufactures, CCTV, etc.

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

### As standard

AVI  
WMV  
MOV  
MPG, M2V, M2T  
VOB  
FLV (adobe flash)  
CineForm  
MXF  
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 EE for Extended file types, \* Option EF for PSE Flash testing