

Desktop Reference Player for IMF, DCP and more

ICE, for Image Control Engine, is the most advanced Reference player for DCP, IMF and many other formats.

ICE contains numerous tools to validate and check the compliancy of complex packages, display subtitles and captions with full confidence or analyse image range and audio loudness. High resolution and high frame rates media are playback in sync with audio, for the best possible quality control.

Extensive source media support

- ICE supports natively **RAW data** at the camera resolution (ARRIRAW, DNG, RED R3D, SONY F65, F55 RAW, Phantom flex 4K, Canon C500, etc..)
- Support for mezzanine formats such as ProRes 444, Avid DNxHD 444, XDCAM, AVC Intra, **AS-11 UK DPP, IMF**
- Support for Interop and **SMPTE DCP**, including stereo3D DCPs up to **4K @60 FPS**
- Support for uncompressed formats such as DPX, TIFF, OpenEXR, etc...

Quality Control

- Extensive timeline with display of video, audio and subtitle tracks, markers and reels
- Histogram, waveform, vectorscope, audio loudness monitoring
- Support for 3D LUT and ACES workflows

Subtitle inspector

- display of text, spotting list metadata including fade in/out, support of unicode, list of font and styles
- Support for embedded fonts
- Support for Interop, SMPTE Phase 2 and SMPTE (MXF)



DCP Support

- Support full 2K and 4K DCI specs, including Stereo3D and up to 60 FPS at 4K
- Support for Interop and SMPTE DCP
- Support of supplementary packages
- Support of multiple PKLs packages
- Extensive support of subtitles (WYSIWYG)
- Support for Closed Captions (MXF SMPTE Timed Text)
- Validation Tools like CPL, PL and AM parsing, test for JPEG2000 interoperability, comparison of metadata listed in the CPL and in the JPEG2000 files, PKL signature test, etc.
- Playback of encrypted DCPs
- Playback of proxy resolutions

IMF Support

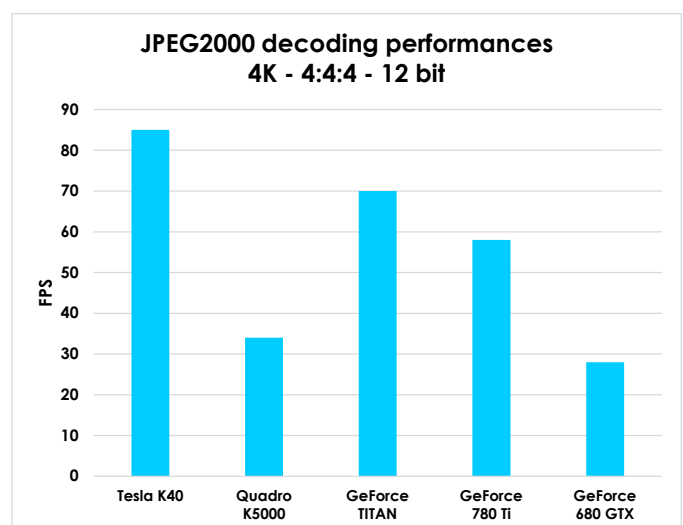
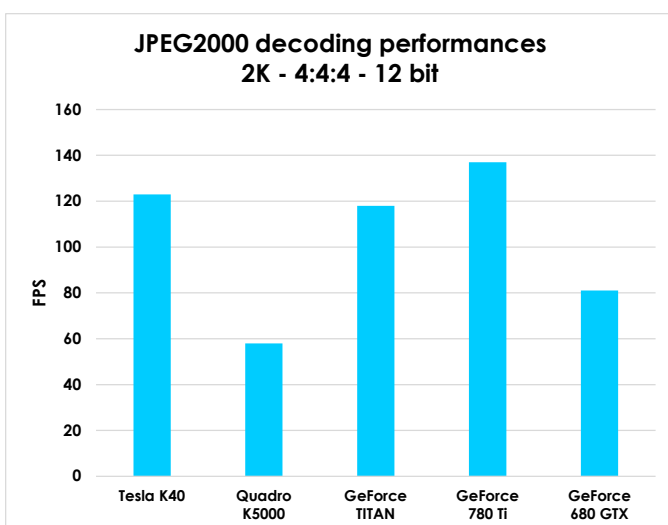
- Support for IMF App #2, App # 2 e, App 4*
- Includes support for BCP 5 and BCP 7
- Support of TTML for Subtitles and C.C.
- Support of multiple soundfields
- Validation Tools like CPL, PL and AM parsing, test for JPEG2000 interoperability, comparison of metadata listed in the CPL and in the JPEG2000 files, etc..

** not yet standardized, subject to modifications*

Configuration

ICE is a software solution that runs on certified hardware configurations.

- OS: Windows 7 64 bit
- JPEG2000 decoding based on GPU technology (see below performances**)
- Video OUT support for Bluefish444 (Neutron, Supernova S+) and AJA (Kona 3G and 4G)



** maximale indicative performances of the processing GPU, may vary depending on the content. A GPU for the GUI is also required.