MARQUISE TECHNOLOGIES

ICE

Reference Player for DCP, IMF & broadcast

ICE, for Image Control Engine, is the most advanced Reference Player for 4K DCP, IMF, HDR content in BT.2100, broadcast deliverables like AS10, AS 11-DPP as well as RAW data, allying in a unique GUI performances, reliability and ease of use.

ICE contains numerous tools to validate and check the compliancy of packages with multiple compositions, display subtitles and captions with full confidence or analyze HDR, bit rate encoding or 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

- Support for Interop and SMPTE DCP, including stereo3D DCPs up to 4K @60 FPS
- Support for IMF and other mezzanine formats such as ProRes 444, Avid DNxHD 444, XDCAM, AVC Intra, AS-11 UK DPP, AS-10…
- Support for HDR content encoded in PQ or HLG
- Native support of RAW data at the camera resolution (ARRIRAW, DNG, RED R3D, SONY F65, F55 RAW, Phantom flex 4K, Canon C500, etc..)
- Support for uncompressed formats such as DPX, TIFF, OpenEXR, etc…

Tools for advanced Quality Control

- Bit rate and HDR monitoring (max FALL and max CLL)
- Histograms, waveform, and vectorscope to analyze color information (color space, video range, tonal distribution, etc)
- Advanced Color Management system supporting ACES, native or custom workflows (3D LUT)
- EBU R128 audio loudness monitoring and peak control
- Switch from one soundfield to another in playback mode
- NLE timeline with display of video, audio and subtitle tracks, markers and reels
- Display of the files and packages metadata
- Validation process and tests for JPEG2000 interoperability (IMF and DCP)
- Export of validation results (PDF reporting)
- Playout on reference monitor or projector (HD, UHDTV, DCI 2K & 4K)
- Support for ACES proxy

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DCP quality control

- Support 2K and 4K DCI specs, including Stereo3D, up to 4K @ 60 FPS
- Support for Interop and SMPTE DCP
- Support of supplementary packages
- Support of packages with multiple CPLs and PKLs
- Playback of proxy resolutions
- Playback of encrypted DCPs
- Synchronization with KeyMaster* to receive the KDMs using TKR protocol

** Marquise Technologies' KeyMaster manages and delivers KDMs for theater distribution or internal use*

Subtitles and Captions inspector

- Display of text and 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, SMPTE (MXF) and TTML (captions and subtitles), and TTML IMSC 1.0 (IMF)

IMF quality control

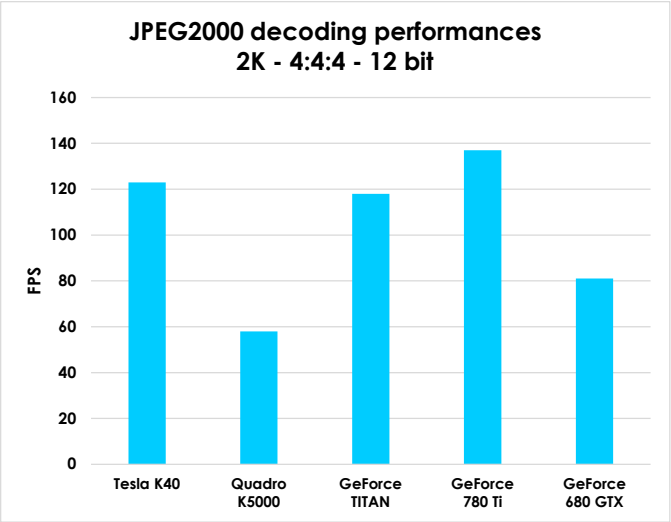
- Support for IMF Apps #2, #2e, #2e+ Studio Profile, #4 Cinema Mezzanine
- Real-time playback also with BCP 5 and BCP 7
- Support of packages with multiple CPLs
- Merging of version files with the original version for the playback
- Support of multiple soundfields

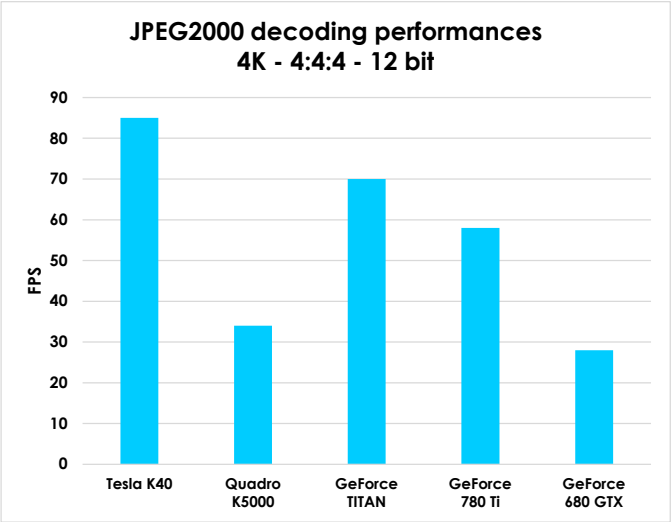
*** as per latest standard release*

Configuration

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

- OS: Windows 10 64 bit
- JPEG2000 decoding based on high-end GPU technology (see below performances#)
- Video OUT: support for Bluefish444 (Neutron, Supernova S+) and AJA (Kona 3G and 4G)
- RS422 remote control capabilities, support for Tangent Device panels





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

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