

Release of CLIPSTER® V 4.7



The new version 4.7 adds trustworthiness and reliability beyond the given and well-known standard of CLIPSTER® with its new enhanced compliance testing mechanism and the ARRI certification:

Based on DVS's long-term experience with DCP creation and handling, the new CLIPSTER® Version 4.7 introduces a sophisticated DCP validation tool to test digital cinema packages for DCI compliancy – and beyond.

Highest image quality, being as important as fastest possible processing speed, is again proofed by the industry with ARRI's certification for CLIPSTER®'s Alexa RAW format processing. The RAW debayering on dedicated DVS hardware excels alternately used GPU processing with ease.

CLIPSTER® continues its support of mezzanine mastering formats implementing features according to the latest proposals.

As usual, CLIPSTER® is constantly expanding the portfolio of its file formats. In Version 4.7 we added OpenEXR read, H264 and MP4 encoding and AVC Ultra 200 in MXF Op1a.

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1.) Digital Camera RAW

ARRI certified Alexa Hardware Debayering

Once again a “first” in the industry, the well-known high quality hardware debayering of DVS CLIPSTER® is now certified from ARRI for the Alexa RAW hardware support. Users can rely on the high speed hardware processing without any compromises in image quality.

Playback of ARRI Alexa RAW material, finalizing it into any other format or using the material in the conform process is all supported by DVS’s dedicated hardware – excelling the alternatively used GPU processing with ease.



RED RMD Support

The RED RMD format replaces the known RED RSX. RMD stands for RED Metadata and is used to store custom defined looks in REDCINE-X. When loading a R3D clip in the timeline, CLIPSTER® automatically detects an existing RMD file and applies it’s settings to the according RED operator. Users can toggle the application of the look easily from within the operator via checkbox.

Phantom Support

CLIPSTER® continues the support of the Phantom high speed camera by Vision Research with adjustments to the implementation adopting the new SDK by Vision Research.

2.) Color processing

3D Lut toggle

With a 3D LUT applied, it is now possible to toggle the effect of the 3D lut on and off to visually compare the difference between the original color and the color correction. The toggle checkbox can be found on the right side above the timeline.

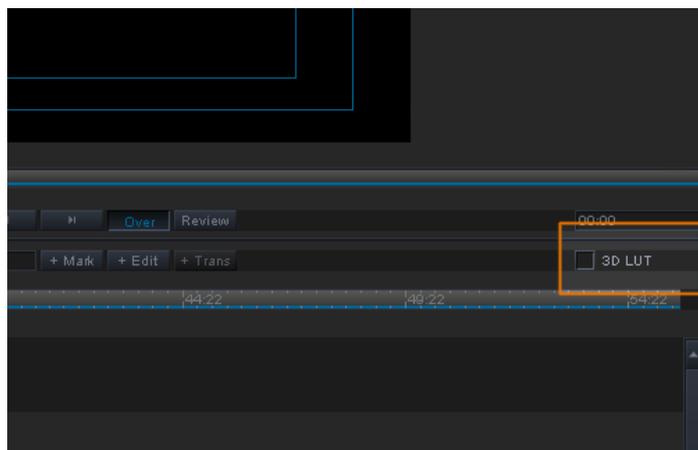


fig. 1: 3D LUT toggle checkbox

3.) DCI Packet

DCI Validation (in DCI Wizard)

With Version 4.7, the DCI Validation tool gets its full introduction into CLIPSTER®'s renowned DCI workflow. Creating a digital cinema package (DCP) with the DCI Wizard now offers a comprehensive testing for DCI compliance right after the finished packaging. DCI Validation adds an additional trust and reliability to the critical DCP workflow with even testing for non-DCI compliant problems known thanks to DVS's longtime experience in DCP generation.

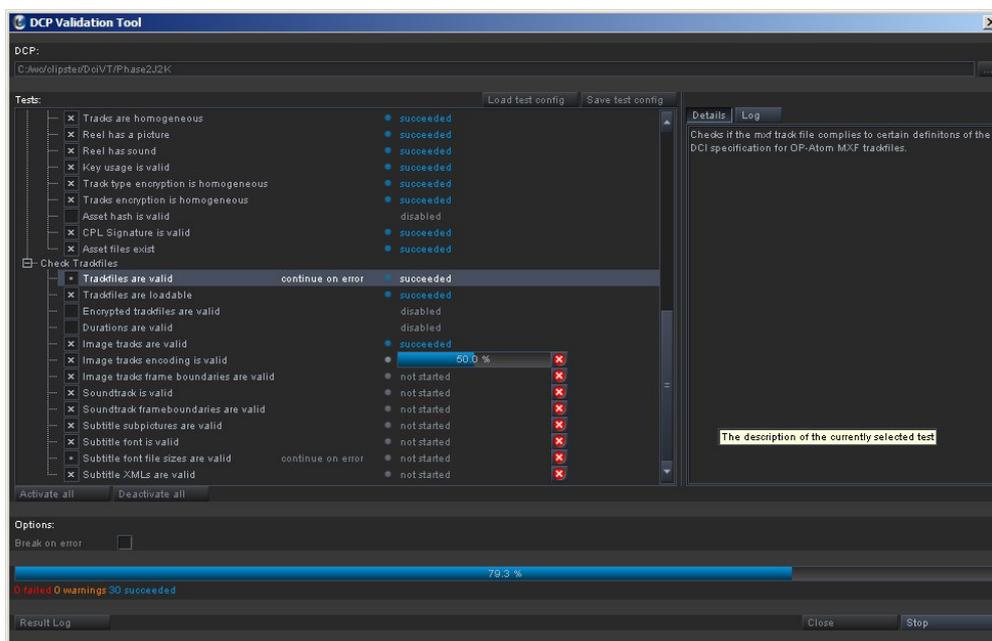


fig. 2: DCP Validation in progress

Users can select from a vast list of specific test patterns, with the option to store and load custom test-lists. The validation process is automatically executed with instant progress feedback and status report. Problems can easily be located and detailed information is given to every single test result.

In addition, log-files can automatically be generated and stored accompanying the created DCP.

DCI Validation (general)

The DCI Validation is not reserved to newly created packages but also available for any existing DCP. This allows users to check the DCI compliancy of received packages and – in case of errors – to react accordingly. Thanks to CLIPSTER®'s intelligent re-wrapping, a DCP to DCP conversion will most often fix the problems without recompression of the JPEG2000 essence.

The DCI Validation can be found under the project menu entry.

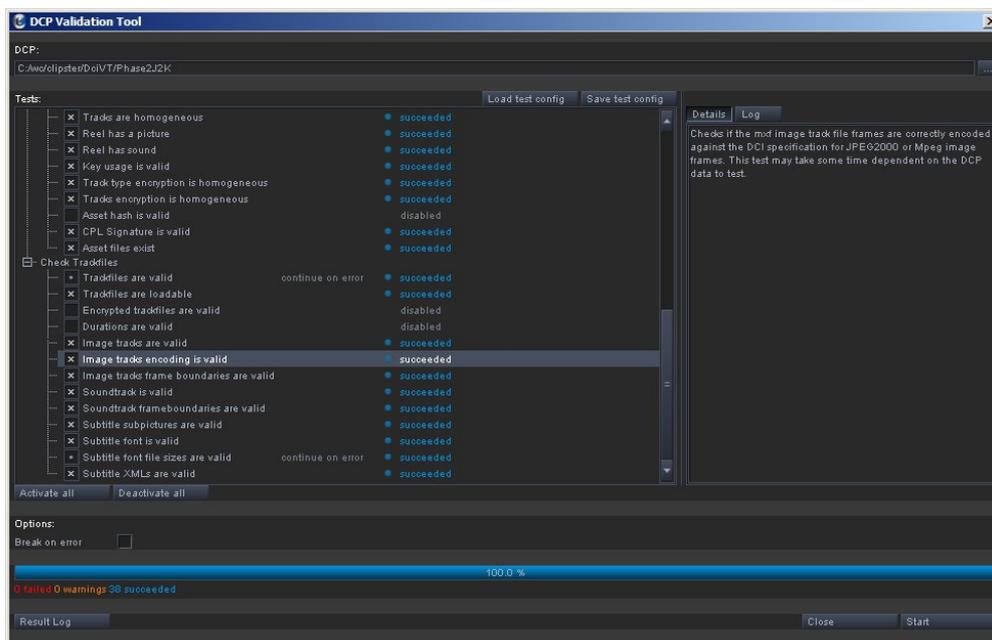


fig. 3: finished DCP Validation of an error free package

4.) Formats

OpenEXR

With this version, reading of OpenEXR file format is supported. This includes layer selection inside the properties of related clips in the bin.

H264

- BluRay .mts file finalize

MP4

- .mp4 file finalize with configurable compression settings

AVC Ultra 200

- AVC Ultra 200 now supported in MXF Op1a

MPEG-2 enhancements

- MPEG-2 is now available with 24bit audio

5.) Miscellaneous

Hardware operation modes

With the increasing amount of supported digital camera raw formats, the hardware operation mode options adapt to the new capabilities. Depending on the system's generation, the dialog shows different options. Users, who want to use the new certified ARRI Alexa hardware debayering, enable the according ARRI Alexa mode checkbox.

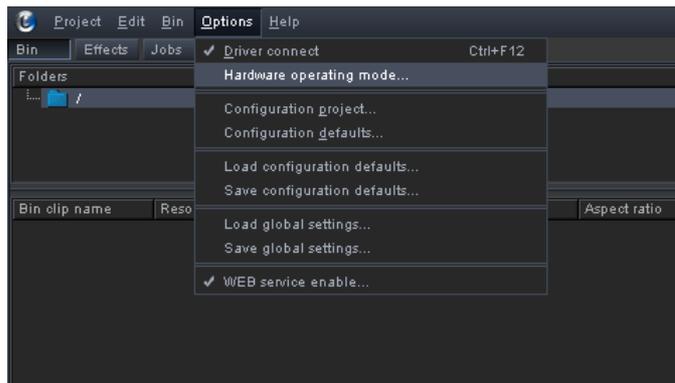


fig. 4: hardware operation mode menu entry

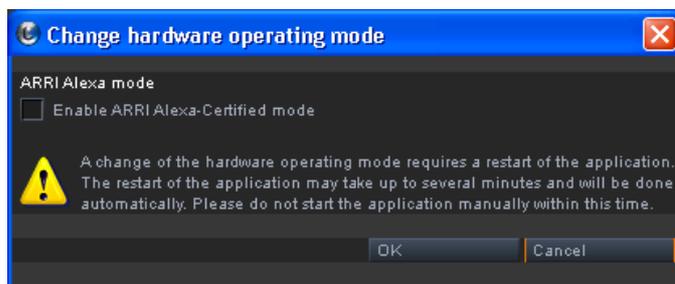


fig. 5: hardware operation mode options on generation 3 systems

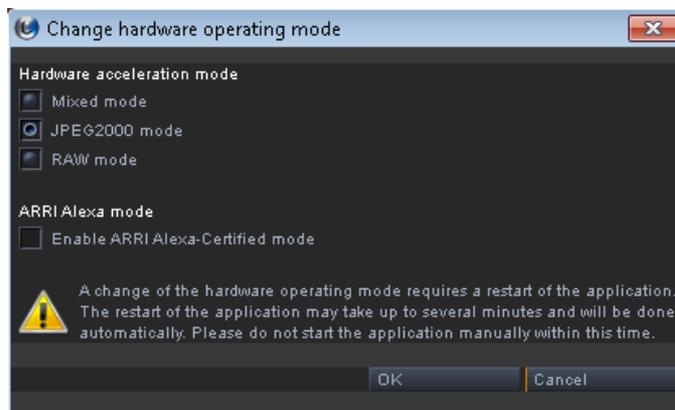


fig. 6: hardware operation mode options on generation 4 systems

Extended service log

The service logfile is extended with additional information to ensure a maximum effective service communication.

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