

Phoenix

Automated & semi-automated
film and video restoration

Features & Benefits

Version 2014.1

Doc Rev 5



Control Panels

Tangent Element Support

Support has been added for the Tangent Element panel.
The Tangent Panel Guide is available under Panels in the Docs.

The required Element panels are

2 x Bt
1 x Kb
1 x Kt
1 x Mf

This comprehensive implementation using the Tangent mapping software has produced a powerful control option for Nucoda software at a very low price.

Keys can be remapped by the user and it offers the user full support for the Tangent iPad control software. The iPad control software can additionally be used in conjunction with the Precision panel.

Support for Avid Artist panels have been discontinued in this release.

File Format Support

Extended Formats (available for Phoenix Refine and Finish)

To enhance file import options a new plugin called “Extended Formats” has been added. This plugin is an upgrade available to all users and will give both enhanced support for some current file formats as well as add many new import file types.

Full details about the file types supported can be found in the addendum at the end of this document.

For the RAW files that are decoded there are additional settings in the Properties window. Most of these will be set automatically. The Bayer Method defaults to Bilinear-Cuda which utilises the GPU in the system to decode the images. The better the GPU the faster the decode. The other settings are fall backs and will all be slower.

To purchase this new option, contact sales@digitalvision.se.

Audio Improvements

Windows Audio Support

Native Audio support in Windows has been added. Audio playback from the timeline through the PC's audio sub system without the need for a video card. Support for 48000hz only. Not available if a Atomix or Centaurus II card is present.

Audio Export

Export of Broadcast Wav (BWav) has now been added. The .wav file can be exported on its own or with the video. Channel selection and bit depth control available. Export is available only in Record TC mode.

User can choose between 16 and 24 Bit export, Record TC is embedded in the files.

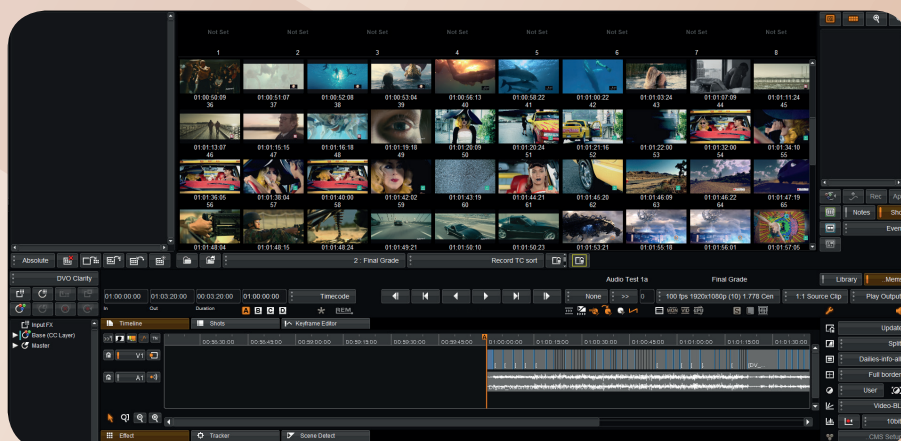
Files can be exported as Mono, Stereo or Polyphonic.



GUI Improvements

Composition home button added to default GUI

To make the GUI more consistent and to enable quicker access to the “Home” composition the Events view GUI has been updated.



Keyboard Shortcuts

Hotkeys are now user assignable

Hotkeys are now configurable and they now appear in the Hotkeys.prefs list so that the user can re-assign them to different keys if needed.

Please see Hotkey PDF for details on new keys and how to map your own.

New actions available as keyboard commands

Support has been added for a list of actions that were previously unavailable from the keyboard or GUI.

These include:

- Reset Comparison Wipe
- Swap Compare sources
- Set Playhead A B C or D and also Cue to selected head A B C or D
- Cue to selected event in events view
- Toggle between TC and Frames
- Force render of current clip
- Render between I and O points
- Render Output
- Cycle between Trim / Segment and direct selection mode
- Toggle cache layer on/of
- Clear cache layer
- Layer Bypass
- Layer Show
- Master reset
- Reset Layer
- Reset Effect

CMS Improvements

Several improvements to our Colour Management pipeline

- CMS that is only a 1D LUT should not go the 3D cube part
- Using 2 LUT files would when combined produce different results compared with a single combined LUT file using the same values.
- LUT files containing values using scientific notation (e.g. 1.23e--03) did not import correctly.

- CMS with values outside 0.0-1.0 show different behaviour in CMS path and CMS effect (vs. project CMS setup)
- Banding in ACES highlights with ODT applied

Command Line improvements

Enhanced Command Line EDL import functionality

The Command Line Interface (CLI) EDL import functionality has been improved to provide better support for CLI users importing EDL's. This includes standard EDL import (to new or existing compositions), conforming and grade merging.

Please see the updated CLI section of the manual.

For help on all CLI operations, type :

```
<application> --help
```

where <application> is *nucoda*. Note that help for the new EDL options are shown by typing `--help-import`.

For an existing project the current format is saved so that user doesn't have to re-select it each time they import the project.

Batching Command tasks

Two new commands have been added to the Command Line Interface to improve the performance of any CLI tasks. By eliminating the requirement for the application to startup for every CLI operation, we have greatly sped up the CLI workflow.

The new commands are :

```
--batch-mode <file>
```

This command runs all CLI commands from the specified batch file.

```
--interactive-mode
```

This command starts the application and lets you send CLI commands to it *interactively*.

Please see the updated CLI section of the manual.

Enhanced command line splicing

We have improved the CLI splice operation to allow clips from the middle of a sequence to be spliced without setting a source-in point (--source-in) and allow sequences to be spliced when multiple sources exist in the same folder.

Preferences

Allow the size of “Reset” targets on the value boxes to be changed

A new preference called “GUIresetZoneSize” in general.prefs will allow the user to make the reset target on the value entry buttons larger. Default is 5, we do not recommend larger than 10



Changes to staging and addition of file backup when using using ISIS

When staging files for transfer to ISIS environment there have been isolated incidents where files were only partially copied. To overcome the problem we have added two specific functions to the MXF preferences.

1. The addition of the backupDir “ ” option - files will be backed up to this location before being copied to the ISIS - please note, the user needs to manage the space in this directory.
2. The “creatingSubDir” is a new option added, so the customer can change the temp storage location of our MXF copy, rather than the default, and potentially problematic “Creating” folder used by Avid. Avid always has priority when writing to “Creating” and sometime our files would be thrown out.

```
mxp
{
  avidDirectory “S:\Avid MediaFiles\”
  avidExportDirectory “S:\Avid MediaFiles\MXF\1”
  creatingSubDir “DVCreating”
  useTempAsStaging false
  forceToObeyTapenamePrefs true
  backupDir “”
}
```


Additional information

Extended formats - supported file formats for import only:

RAW Formats - Debayering accelerated with GPU

Cinema DNG

Ikonoskope

IndieCam

Magic Lantern

OneCam

BMD Cinema and Pocket Camera

Canon RMF

Phantom Miro & 4K Flex

Other Formats:

AVI

JPEG 2000

- JP2
- MXF
- MXF (DCP)

MOV

- CineForm (SI-2K)
- DV100
- AVCi 100
- MPEG-2

MXF Sony MPEG HD

- Canon
- XDCAM

MXF_Omneon_MPEG_HD

- XDCAM

MXF_Avid_MPEG_HD

- XDCAM

MXF P2 AVCi

- P2 AVC Intra

MXF P2 DV

MPEG-4

- XDCAM-EX
- GoPro

MXF_Avid_MPEG_HD

- XDCAM

MXF Avid OP1a

- Arri DNxHD

MXF_Avid_DS

MXF_Sony_IMX

MXF_CBR

MPEG_2_Transport

YUV_Image

Photoshop_PSD

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