Filmworkz
Create Incredible

UNPARALLELED COLOR GRADING

NUCODA

USED BY THE BIGGEST NAMES IN THE GAME...

With over 30 years of image science and development behind it, **NUCODA** is our industry leading color grading application with unparalleled ability to enhance, restore and manipulate moving images.

Long favored by major studios, broadcasters and post houses to create complex looks and visual styles for film, commercials, television and animation, getting access to our award-winning tools has never been easier!

Filmworkz Nucoda allows you to take advantage of the full range of **DVO TOOLS** when you need them – with monthly subscription options and scalable packages now available.

We want to empower you to **CREATE INCREDIBLE** with unmatched enhancement, correction and conversion capabilities at your fingertips.

So whether you're just starting out, grading your first feature or your fiftieth... we're with you every step of the way!

And now all Nucoda editions include our DVO Essentials Pack: Brickwall, Chroma, Clarity, Grain GT, Pixel, Regrain RGB and Sharpen offering even more incredible value!

TRUSTED BY:

NUCODA IS NOW FASTER THAN EVER!

Our 2021.2 release followed our **MAJOR AND UNPRECEDENTED CODE OVERHAUL**

New Planar, Deform, Warp and TRS tracker based on **ENTIRELY NEW HIGHLY INTELLIGENT ALGORITHMS**

Sequential file export optimization with **MASSIVE PERFORMANCE IMPROVEMENTS FOR EXPORTS OVER SAN AND NAS**

DVO render improvements with up to **30% SPEED INCREASES**

SO MUCH MORE THAN COLOR GRADING

NUCODA is the perfect host platform to access the entire range of **EMMY AWARD-WINNING DVO TOOLS.**

WHY CHOOSE NUCODA FOR YOUR NEXT COLOR GRADING PROJECT?

1 UNMATCHED FLEXIBILITY FOR TRUE PROFESSIONALS

Advanced color grading application with HDR support and more color tools than competing systems.

2 EMMY AWARD-WINNING TECHNOLOGY

Full access to the entire range of DVO Tools for an unmatched choice of additional enhancement, correction and conversion capability (optional).

3 MORE THAN COLOR GRADING OUT OF THE BOX

DVO Essentials Pack included at no additional cost.

4 BUILT FOR SPEED AND EFFICIENCY

Designed as a fit-for-purpose color grading system at the outset combining speed and efficiency balanced with advanced functionality.

5 UNLIMITED COLOR LAYERS

Powerful memories view – easily recall grades, events and notes.

6 NO CAPITAL INVESTMENT REQUIRED

Now available on subscription from just $99/month.

WHAT DO OUR CUSTOMERS SAY?

We're very dependent on and very grateful that we can work with **MULTI-PART EXR'S** and also **THE DVO TOOLS.**
SUSAN BRUNIG

P I X A R
Animation Studios

Nucoda's like the **BANKSY OF COLOR GRADING,** it's amazing but no one knows who they are!
AIDAN FARRELL

FARM

I love **NUCODA'S DVO NOISE REDUCTION AND RESTORATION TOOLS** in terms of matching older footage and stock footage.
PAUL WESTERBECK

Picture
SHOP

SOME OF THE COOLEST STUFF

HDR WORKFLOWS – PQ2084 and HLG, Dolby Vision v2.9 and v4.0

ACES COLOUR MANAGED WORKFLOWS - The Academy Color Encoding System (ACES) (SMPTE 2065-1), with support for ACEScc and ACEScct

ACES is for managing color throughout the life cycle of a motion picture or television production.

DOLBY VISION MASTERING – Mastering and trimming of Dolby vision content with Integrated Content Mapping and support for hardware Content Mapping Unit.

NDI (NETWORK DEVICE INTERFACE)
LIVE STREAM DIRECTLY OUT OF THE APPLICATION WITH THE CLICK OF ONE BUTTON - Allows clients anywhere to review your sessions. This open standard can be combined with a range of applications to build your own remote grading setup or remote review sessions to suit your needs.

ADVANCED AUTO TRACKING – Shape Deformation, Point Tracking, Planar tracking, Warp tracking.
The latest version of our tracker uses advanced algorithms to intelligently locate feature points within a shape, so the tracker works effectively in any scenario

DVO IMAGE ENHANCEMENT – Access to the award-winning DVO image processing tools.

AND JUST THE COOL STUFF

ADVANCED EDITING & FINISHING TOOLS - Including source edit mode with three-point editing, unlimited video tracks and compositing.

FLEXIBLE MULTI-LAYER TIMELINE - Work with material in a familiar and flexible way using multiple video and audio tracks. Easily move and trim shots, lock and solo tracks, with track-based compositing.
Timeline and shot bookmarks allow for better organization and retrieval of information, along with track naming for VFX intensive workflows.

PROJECT FRAME RATE - support up to 120fps

EXTENSIVE EXR METADATA SUPPORT - Dynamic EXR metadata background checks, Multi-part matte import and export.

INTEROPERABILITY - Interoperability with third-party systems supporting industry standard formats like **AVID DNXHR, MXF** and **APPLE PRORES** - including metadata. Read and write **AVID DNXHR, MXF AND APPLE PRORES.** **SUPPORTS AVID INTERPLAY**

MULTIPLE, LAYER-BASED COLOR TOOLS - Each color layer contains multiple tools to manipulate the color of your image. LGG, Balance, Brightness Regions, RGB Curves, Printer Lights, Hue Curves, Luma-Sat, Sat-Sat, Blur, Brightness Contrast, Color Curves, Printer Lights, Channel Mixer.

LAYER ROUTER - Advanced layer routing functionality combined with isolation tools for every layer. RGB, alpha and luma mattes, shapes, keys, difference mattes. Transfer functions and transparency between every layer. Route any layer.

PAINT & DIFFERENCE MATTE ON EVERY LAYER - Easily restore the source material or retouch, generate difference mattes for advanced regrain.

ADVANCED REPORT GENERATION - Generate customized HTML restoration reports to help with billing and planning. Create restoration reports including source information, tools used, the number of manual fixes applied.

COMPREHENSIVE COMPARISON TOOLS - Compare images and grades by Track, Play head, Source or Event. Compare Modes include Dual, Split, Checkerboard, Red Diff, Butterfly, Cut Mono, Mono*10, Diff Multiply.

EVENT VIEW - Use the event view to navigate, compare and recall easily from any other timeline event. Open different compositions for recall or comparisons from other compositions. Recall entire grades or single tools

CONFIGURABLE MASTER RESET - Configurable Master reset means users can choose what effect to ignore during resets.

USER DEFAULT FOR ALL TOOLS - Save personal preference for effects and use as default.

ACCESS TO OFX PLUGIN EFFECTS - OFX support including Sapphire and Re:Vision effects.

GPU ACCELERATED COLOR TOOLS - All color tools and Pan & Scan tools are GPU accelerated for increased interactivity and performance

FULLY AUTOMATED BACKGROUND CACHING - Unobtrusive background rendering ensures you always have the best results available without interruption. User selectable GPU and layer cache to streamline operations and greatly enhance user interactivity. Compressed caches supported.

MONITORING USING AJA KONA 4/5 OR DECKLINK - Resolutions up to 4K/UHD and high frame rates

INTEGRATED SCOPES AND MEASUREMENT - User configurable scopes and measurement tools. ROI Display. Waveform and PQ Nit displays. Custom labels

MULTI-PART MATTE I/O - Import and export multi-part matte EXR files allowing for unique VFX and animation workflows

INTELLIGENT MOTION COMPENSATED TRACKING - Object based tracking with extensive controls over shape deformation. Includes TRS, Planar and deform tracking

BOOKMARKS - Create locators, import via lists, export and navigate using a dedicated menu. Includes full panel support as well as keyboard shortcuts making the feature quick and effective to use

PROJECT CREATION AND PREFERENCES - Projects can be set up with multiple output delivery formats with automatic scaling and image conversion. Automatic project backup and retrieval using time stamped backups. Preferences for conform, color tools, control panels and video I/O

COLOR MANAGEMENT - ACES, Color Conversion Tool with Color Spaces, Illuminants and Curves. Import and export .CMS and .Cube LUT formats.

DOLBY VISION V2.9 AND V4.0 - Hardware and Integrated Content Mapping with Dual Dolby monitoring mode (Dolby license required to activate trimming controls)

ACCURATE CONFORM - AAF, XML and EDL support including import of bookmarks. Support for animated position and scaling, dissolves, transparency and retimes.

Retain original Source information from EDL even when applied to mixdown material. Perform manual shot conform using the dedicated conform tab.

Swap conformed shots while retaining effect information from the timeline.

Apply cuts to material on timeline or make use of the fast, accurate background scene detector.

EDL extensions and CLI access for developers to script complex pipeline.

CLI SUPPORT – In depth command line support allowing for customizable workflows ranging from matte and layer insertion to automated exports

UNIQUE COLOR LAYERS – Each layer contains isolation tools such as Mattes, Keyer and Shapes. Each layer also has its own difference matte generator and Matte Paint tools. There are fifteen unique color tools in every layer. Working in HDR is made easier and more intuitive using Brightness Regions and Soft Clip

EASILY-ACCESSIBLE MEMORIES – Offers different ways to store, recall and compare shots, notes, tracks and much more. Notes enable you to save unlimited numbers of snapshots so that you can assemble libraries of looks and access them in any project. Quicknotes give you direct access for up to eight Notes from the control panel with a single key press and our events view allows you to compare to any shot form any timeline within a project.

INTERACTIVE GRADE MERGE – Color coded merge list for grade merges. Merge from EDL, AAF or XML. Supports merging using Mixdown sources with original AAF or EDL to supply source TC and Source.

EXTENSIVE FILE EXPORT OPTIONS – Support for Apple ProRes with 2020 and PQ encoding options. AAF export for reimport into Avid or MXF export for Avid relink workflow. Record and Source order export of material. Image scaling and clipping option on export. LUT Export.

SOME OF THE TECH STUFF

IMPORT AND EXPORT

SUPPORT FOR - DPX, EXR, DNXHR, XDCAM, APPLE PRORES (import and export incl XQ) **ARRI, CODEX HDE, RED, SONY, BLACKMAGIC RAW, DNXHD, HDCAM 50, XAVC, AVC-INTRA 100, IMX 30 40 50 H264, DNG, PHANTOM, PRORES MXF**

EDL, AAF, XML, import for composition creation and round-trip workflow. **AVID** Interplay support.
We also support the export and import of Nucoda compositions as content files. This allows for easily moving Nucoda and Phoenix timelines between systems and projects.

ADD OR IMPORT Bookmarks from **EDL, XML** and **AAF.** Bookmark management, **EXTENDED EDL SYNTAX** support for locators and matte assignment

EXPORT 1D, 3D-CUBE, .CMS LUT or **CDL** from any layer. Import of **CMS** via **EDL**

VIDEO I/O AND MONITORING WITH AJA KONA 4, 5 AND BMD DECKLINK RANGE.

PLAYBACK and monitoring **3G-SDI, SMPTE-259/292/296/424,**

RS422 VTR control supporting SD/HD lay-off (AJA Only)

High Frame Rate 60P 1080, UHD support 50p and 60p (Storage dependent) 4K/UHD 10 bit 4:2:2 and 10 and 12 bit 4:4:4, and HDMI v2.0b, 30/36 bits/pixel, RGB or YUV

DVO PACKAGES:
DVO ESSENTIALS PLUS
Alias, Aperture, Steady 2, Flicker, Fix, De-interlace, Stereoscopic

DVO CONVERT
De-interlace, Twister, Zoom, Upscale, Three Two, Scala

DVO RESTORE
Dry Clean, Dirt Map, Dust & Fix, Dust GT, Frame, Print Align
Align Seq, Scratch Target, Warp, Dust

DVO VIDEO
Cross-colour, Dropout + Fix, Line-Sync, Noise, Droput, Alias,
Aperture, Brickwall, Chroma, Deinterlace, Grain GT, Pixel

THE HARDWARE STUFF

LISTED BELOW ARE OUR MINIMUM HARDWARE RECOMMENDATIONS TO GET THE BEST OUT OF OUR PRODUCTS. PERFORMANCE MAY BE AFFECTED ON LOWER SPECIFICATION HARDWARE.

NUCODA
Windows 10 Pro 64
AMD Ryzen™ Threadripper™ Pro 3975WX (32-Cores) **OR** AMD Ryzen™ Threadripper™Pro 3995WX (64-Cores) **OR** 2x Intel™ 18 core Processors
8x 16 GB DDR4 3200MHz RAM
NVIDIA® Quadro® RTX 5000
1 TB M.2 Gen 3 PCIe SSD, OPAL (O/S)
2x 2TB M.2 Gen 3 PCIe SSD, OPAL (Project Caching drive)
8x 2TB Internal SSD Raid (for Storage, if no SAN/NAS)

TO USE DVO PACKAGES & OFX DVO PLUGINS

Follow same specs as above

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