

OpenDrives Accelerates Davinci Resolve



Color Correction Defined.

Color correction or color grading is the process of altering the color of various scenes in a film or program to achieve specific aesthetic or technical goals.

Virtually all commercially edited video undergoes some type of color correction. Color correction is therefore an integral part of professional film and video production pipelines, requiring specific tools and expertise to efficiently achieve the required results.

During the color grading process, a variety of issues can be addressed, such as adjusting the varying exposure of evening shots to maintain visual continuity; expanding contrast; “developing” the image from RAW camera recordings; enhancing the photographic representation of product colors; increasing accuracy of skin tone reproduction; directing the viewer’s eye to points of interest; or conforming your project to a specific look and visual palette. The ‘Final Color’ color grading is typically the last component in the Post Production workflow before Delivery and Mastering, but some preliminary color correction may also occur in Dailies Creation, Editing, and VFX, depending on the desired workflow.

Additionally, color correction ensures that all color values in every frame are in compliance with international broadcast standards for the intended display environment [i.e. ‘legal’ or ‘broadcast safe’ colors for television]. Violating these standards can create visual artifacts leading to a bad viewing experience, and can see a program pulled from television broadcast schedules.



Shared network storage provides your editors and colorists the opportunity to work from the same material on the same shared volume. This radically reduces the waiting period to get into and through color after picture lock.

Technical Notes

24 FPS TEST RESULTS

- 8K DPX 12 bit - 3600MB/s
3 concurrent, 1 per workstation due to workstation limitations
- 2.8K ARRI RAW - 165MB/s
72 concurrent, 16 per workstation
- 4K EXR 16 bit - 1200MB/s
9 concurrent, 3 per workstation
- 8K R3D 5:1 Compression - 368MB/s
29 concurrent, 5 per workstation
- 4K R3D 6:1 Compression - 52MB/s
211 concurrent, 16 per workstation



REFERENCE ARCHITECTURE

STORAGE

OpenDrives 138 SKU
AV20S1920M164N40

ETHERNET SWITCH

Arista 7060CX32-S

WORKSTATIONS

Conform Workstation
Win10 HPZ840 or Mac Pro

8K Review Workstation
Win10 HPZ840 or Supermicro
SuperServer 7048GR-TR

4K Workstation - Primary Grading Suite
Win10 HPZ840 or Supermicro
SuperServer 7048GR-TR

HARDWARE PANEL

Blackmagic DaVinci Resolve
Mini or DaVinci Advanced
Panel

MORE INFORMATION

 **OPENDRIVES**
opendrives.com/products

 **BLACKMAGIC DESIGN**
DaVinci Resolve
blackmagicdesign.com/
products/davinciresolve

Resolve Supercharged with OpenDrives

OpenDrives NAS solutions provide unmatched throughput for DaVinci Resolve workflows. Whether the project calls for 8K 12 bit DPX, multiple concurrent streams of HD 4444, 4K EXR, or hours of original camera RAW files, OpenDrives delivers the performance demanded by color grading workflows, while also consolidating disparate storage pools, drastically reducing copy and render time, and increasing team productivity.

With blistering speeds as high as 3.6 GB/s to each workstation, OpenDrives frequently enable artists to eliminate the typical Conforming step in their workflows, and simply work in the native resolution of your source media. This saves time, money, and headaches.

The benefits & flexibility obtained from empowering DaVinci Resolve with OpenDrives NAS solutions translate into real world financial opportunities. These include delivering more billable color correction services at more points in a workflow; having the time to spin more iterations to fine-tune a project; having more time & bandwidth to take on more clients in parallel; and achieving better synergy and efficiency with other partners or departments in your post production environment.

The pairing of an OpenDrives and Blackmagic Designs' DaVinci Resolve create an incredibly powerful and sophisticated workflow engine to power new opportunities for any Color Correction enterprise.