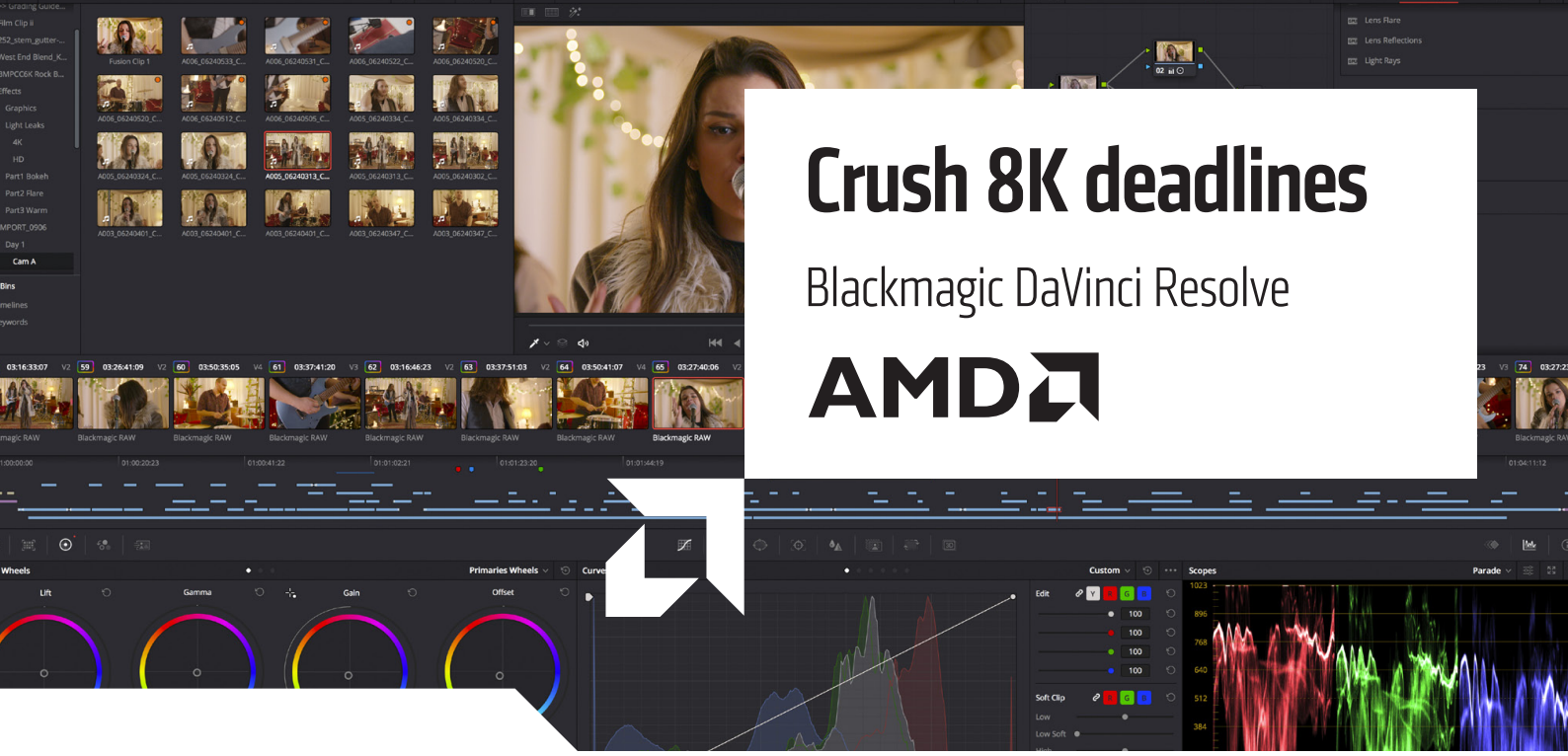
Crush 8K deadlines

Blackmagic DaVinci Resolve

AMD



New to DaVinci Resolve?

DaVinci Resolve is an edit, color, visual effects and audio post production software. 8K content production with DaVinci Resolve has quickly become the new standard. Blackmagic Design states it "is the standard for high end post-production and finishing on more Hollywood feature films". Within the application is a large collection of GPU accelerated tools. The software can be used with a hardware control panel when performing complex color grades. DaVinci Resolve runs on all major platforms, with DaVinci Resolve Studio supporting up to 8 GPUs.

How to accelerate DaVinci Resolve

DaVinci Resolve performs all image processing on the GPU. This reliance on a high performing GPU offers incredible real time performance. Blackmagic Design recommends 8GB of dedicated graphics memory for UHD workflows[1]. The powerful, yet affordable Radeon™ Pro VII GPU offers twice this, supercharged with HBM2 and ECC as standard. As content increases in complexity and size the reliance on your hardware choices continue. We recommend a balanced system, with an extremely fast CPU, large amounts of RAM, and PCIe® 4.0 interface support.

The secret of larger workloads

The Radeon Pro VII GPU is unique in that it brings extreme amounts of memory bandwidth to DaVinci Resolve users. The exceptional 1TB/s of bandwidth when combined with ultra-fast PCIe® 4.0 (x16) support ensures that many of today's 8K project bottlenecks are crushed.

"AMD Radeon Pro VII will be a great addition for creative professionals who need a revolutionary PCIe Gen 4 GPU to process both 8K and Blackmagic RAW 6K content in DaVinci Resolve in real time. The support from 16GB HBM2 memory will be great for DaVinci Resolve users who can use the PCIe Gen4 for faster transfers of content and media on projects up to 8K content."

Dan May, the President of Blackmagic Design Inc.

Multiple GPU acceleration

DaVinci Resolve Studio offers multiple GPU (mGPU) support for up to 8x individual GPUs. This allows for each frame to be assigned to a specific GPU, ultimately spreading the workload, allowing deadlines to be reached faster. In situations like this, the challenge is having fast GPU memory as much as it is to have lots of GPU memory. The Radeon™ Pro VII easily answers this challenge by offering you access to the latest hardware advancements, with the GPU's architecture being used in some of the world's fastest supercomputers.

The new standard for 8K projects

Powered by the 7nm "Vega" architecture, 16GB of high-speed HBM2 memory, and support of up to six display outputs, the AMD Radeon™ Pro VII GPU delivers exceptional UHD and 8K high-resolution experiences. Access to the latest hardware on the Radeon™ Pro VII GPU brings greater tool interaction in DaVinci Resolve.

Blackmagicdesign

Support for remote working

The AMD Radeon™ Pro VII supports the GPU-accelerated experience of AMD Remote Workstation[3] allowing you to access your physical workstation from virtually anywhere with the IP built into Radeon™ Pro Software for Enterprise driver.

This Radeon™ Pro VII graphics driver delivers enterprise-grade stability, security features, and innovative features, including high-resolution screen recording.

amd.com/RadeonProSoftware

AMD RADEON PRO VII

OVER
1 TB/s
BANDWIDTH FOR MEMORY INTENSIVE WORKLOADS

UP TO
16GB HBM2
MEMORY FOR LARGE MEDIA PROJECTS

SUPPORT FOR
6x Panels
VIA MINI-DISPLAYPORT™ 1.4

DEDICATED
Encode & decode
VIDEO ACCELERATION[1]

RELATIVE PERFORMANCE IN IDENTICAL WORKLOADS[2]. **100%**

8K RED® TO UHD OPENFX: Workflow tools test for lens flare + Tilt-shift blur + Sharpen.	UP TO **-3%** PERFORMANCE
8K RED® to 8K BASIC GRADE: Total for removing noise or grain from footage, without losing image quality.	UP TO **-5%** PERFORMANCE
4K RED® SCORE: Average of basic grade, Temporal nodes, optimized media and codec tests.	UP TO **-9%** PERFORMANCE
8K RED® 3x TEMPORAL AVERAGE: Based on 4x basic grades with 3x Temporal noise nodes across four separate test media conversions projects.	UP TO **-26%** PERFORMANCE

Benchmark overview

The "Vega" chip architecture of the Radeon™ Pro VII is ideally suited to different codecs, projects and workflows when the GPU is placed under large task and resolution stresses. In this situation the large amount of Compute Units and Processor Streams of the ultra-fast GPU ensure project interactivity remains.

RTX 5000
NVIDIA Quadro® RTX 5000 with Optimal Driver for Enterprise (442.5).

Radeon Pro VII
AMD Radeon™ Pro VII with AMD Radeon™ Software for Enterprise 20.Q2 Pre-Release version.

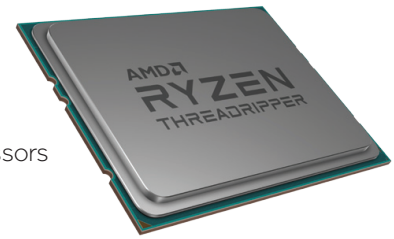
Why AMD:

AMD is proud to power the graphics behind many world-class workstations and mobile solutions, be at the heart of major games consoles beloved for gameplay and streaming video entertainment, to powering some of the worlds fastest supercomputers for research, to driving business laptop performance. AMD already touches many areas of your life.

amd.com

Looking for a CPU too?

AMD processors are an excellent choice for powerful workstations, with Ryzen™ Threadripper™ processors offering blazing fast, multi-core workstation performance.



[1] Source for hardware specifications https://documents.blackmagicdesign.com/ConfigGuides/DaVinci_Resolve_15_Mac_Configuration_Guide.pdf

[2] RPW-310: Testing as of April 02, 2020 by AMD Performance Labs on a production test system comprised of an Intel® Xeon® W-2125, 32GB HBM2 RAM, Windows® 10 Pro for Workstations, 64-bit, System BIOS 1.11.1, AMD Radeon™ Pro VII, AMD Radeon™ Software for Enterprise 20.Q2 Pre-release version/NVIDIA Quadro® RTX, NVIDIA Quadro® Optimal Driver for Enterprise (ODE) R440 U6 (442.5) using PugetBench for DaVinci Resolve Studio v. 0.6 Beta. PugetBench by Puget Systems. Results may vary. RPW-310

[3] Learn more at https://www.amd.com/en/technologies/remote-workstation.

[4] HEVC (H.265), H.264, and VP9 acceleration are subject to and not operable without inclusion/installation of compatible HEVC players. GD-81

To learn more about AMD professional graphics visit:
amd.com/RadeonPro

AMD