Accelerating your storytelling

Avid® Media Composer®

AMD

New to Media Composer?

Avid Media Composer is ideal for professional editors, movie makers, large broadcasters and post-production teams working in any resolution up to 16K and a 32-bit full float color pipeline. The renowned non-linear platform has extensive tools aimed at titles, effects, video and multicam editing, as well as film workflows including advanced color correction.

Media Composer is GPU accelerated and multi-core CPU aware. It takes advantage of high-end GPUs to process effects and playback operations and uses the CPU for decoding and transcoding operations. Striking a balance between a powerful CPU and GPU ensures users can handle workflows in native camera codecs, in 32-bit full float color, and at high frame rates without dropped frames.

How to accelerate Media Composer

An important part of optimal performance is selecting Avid-qualified systems to ensure stability, predictability, and dependable software acceleration. This overall qualification is defined by Avid during which they dedicate significant resources to test specific platform configurations.

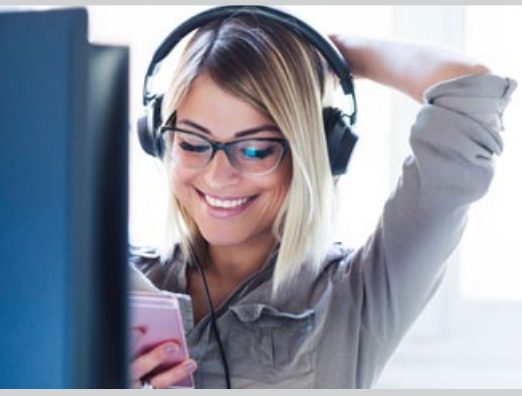
Media Composer is processor-intensive, particularly when working with professional codecs such as XAVC, Avid DNxHD®, DNxUncompressed, and ProRes RAW in real-time. It is important to choose a balanced system that meets Avid's requirements to ensure the CPU and GPU are evenly matched for smooth high resolution and/or multi-stream playback at the highest frame rate.

The secret of larger workloads

Is simple, you need a powerful workstation offering a high performing balance of CPU and GPU. The BOXX® Apexx® T4 rises to this challenge with its 3rd Gen Ryzen™ Threadripper™ CPU and Radeon™ Pro VII GPU configuration. This AMD CPU and GPU combination is unique in that it brings extreme amounts of memory bandwidth to Media Composer users. The exceptional 1TB/s of GPU bandwidth when combined with ultra-fast PCIe® 4.0 (x16) support and up to 64-core CPUs ensures 4K and 8K project bottlenecks are crushed.

"The combination of the 64 core Threadripper 3990X and the Radeon Pro VII, along with the PCIe Gen4 transfer between them opens new possibilities working in up to 8K resolution, 32-bit color, and native camera codecs."

Kate Ketcham, Director, Product Management, Avid Media Composer.

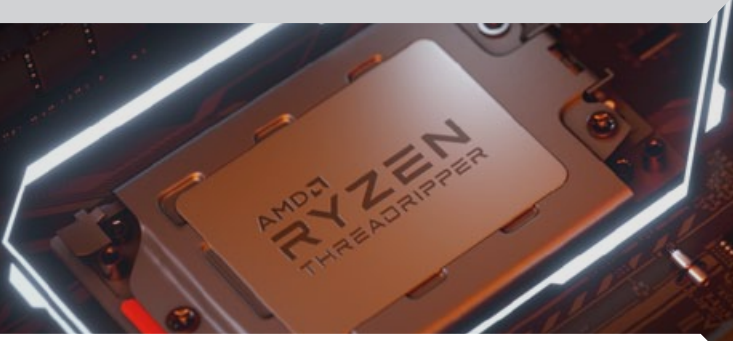


Make the most of third-party plugins

Thanks to Avid's AVX2 API, Media Composer can benefit from an increasing array of image processing plug-ins. When combined with a Radeon™ Pro graphics processor, plug-ins such as Boris FX's Continuum and Mocha Pro work like lightning. These types of effects are where a powerful GPU with excellent memory bandwidth is significantly noticeable. The Radeon™ Pro VII GPU easily answers this challenge, with the GPU architecture being used in some of the world's fastest supercomputers.

The new standard for up to 8K media

The AMD powered BOXX Apexx T4 system, provides access to the latest AMD CPU and GPU hardware bringing greater tool interaction and media playback in Media Composer. The versatile system is Avid-qualified with 32 or 64 core CPU options, whilst capable of supporting PCIe® Gen3 or Gen4 GPUs, and up to 256GB of ECC DDR4 memory.



The world's most powerful desktop processor[1]

3rd Gen AMD Ryzen™ Threadripper™ processors are ideally suited for blazing fast decodes, encodes and transcodes with up to 64 cores, 128 threads and 288MB of combined cache. It is the only high-end desktop platform ready for bleeding-edge PCIe® 4.0 connectivity, removing critical I/O bottlenecks for GPU transfer up to 8K, also unleashing the I/O throughput of the latest generation of NVMe arrays.

amd.com/Threadripper

UP TO
1024 GB/s
GPU BANDWIDTH FOR MEMORY INTENSIVE WORKLOADS

UP TO
16GB HBM2
GPU MEMORY FOR LARGE MEDIA PROJECTS

GPU SUPPORT FOR
6x Panels
VIA MINI-DISPLAYPORT™ 1.4

DEDICATED GPU
Encode & decode
VIDEO ACCELERATION[2]

AMD CPU & GPU
Avid-qualified
SYSTEM CONFIGURATION

AMD RADEON PRO VII

AMD RYZEN THREADRIPPER

RYZEN™ THREADRIPPER™ 3990X
The World's First 64-core
HIGH END DESKTOP PROCESSOR[1]

CPU & GPU SUPPORT FOR
PCIe® 4.0
OFFERING WORKLOAD ACCELERATION

RYZEN™ THREADRIPPER™ 3970X
The World's Most Powerful
32-CORE DESKTOP PROCESSOR[3]

CPU & GPU SUPPORT FOR
ECC memory protection
HELPING PROTECT AGAINST DATA CORRUPTION

Why a GPU matters for 8K media

The 7nm "Vega" chip architecture and 16GB of high-speed HBM2 memory in the Radeon™ Pro VII GPU is ideally suited to both compute tasks (renders, third party plug-ins) and reliable playback of the most demanding video formats. The large amount of Compute Units and Processor Streams of the ultra-fast GPU ensure project interactivity remains at high resolutions, color depths, and frame rates.

amd.com/RadeonProVII

Looking for a less powerful GPU option?

The Avid-qualified Radeon™ Pro W5700 GPU is an excellent choice for less demanding media and resolution workflows within Media Composer, although it's recommended you balance this with a AMD Ryzen™ Threadripper™ CPU.

amd.com/RadeonProW5700

Why AMD:

AMD is proud to power the graphics and processors 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 world's fastest supercomputers for research. AMD already touches many areas of your life.

amd.com

Why BOXX:

BOXX builds high-performance workstation computers, rendering systems and servers for the media & entertainment industry. With indepth experience in removing bottlenecks, accelerating workflows and improving performance, BOXX brings performance that is purpose-built for your unique workflow.

boxx.com/AVID

[1] Testing by AMD performance labs on 10/07/2019 comparing an AMD Ryzen™ Threadripper™ 3970X and AMD Ryzen™ Threadripper™ 3960X vs. Intel© Core™ i9-9980XE in the Cinebench R20 nT benchmark test. Results may vary. CPK-02

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

[3] Testing by AMD performance labs on 10/28/2019, comparing the AMD Ryzen Threadripper 3970X 32-core desktop processor to the Ryzen Threadripper 2990WX (formerly the world's fastest 32-core), Using the Cinebench R20 single-core benchmark score and Cinebench R20 multi-core benchmark score to measure single-core and multi-core performance for each processor. Performance results may vary. CPK-15