



Avid® Editing Application

ReadMe for Media Composer® v2023.3

IMPORTANT: Avid periodically makes software updates available for download on [Avid.com](http://www.avid.com/us/support/downloads) at the following location: www.avid.com/us/support/downloads. Please check the above site regularly for information on available downloads for your product.

Important Information

Avid® recommends that you read all the information in this ReadMe file thoroughly before installing or using any new software release.

Important: Search the Avid Knowledge Base for the most up-to-date ReadMe file, which contains the latest information that might have become available after the documentation was published.






This document describes compatibility issues with previous releases, software installation instructions, hardware and software requirements, and summary information on system and memory requirements. This document also lists hardware and software limitations.

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Symbols and Conventions

Avid documentation uses the following symbols and conventions:

| Symbol or Convention | Meaning or Action |
|---|---|
|  | A note provides important related information, reminders, recommendations, and strong suggestions. |
|  | A caution means that a specific action you take could cause harm to your computer or cause you to lose data. |
|  | A warning describes an action that could cause you physical harm. Follow the guidelines in this document or on the unit itself when handling electrical equipment. |
|  | A user tip provides a helpful hint that can aid users in getting the most from their system. |
|  | A shortcut shows the user keyboard or mouse shortcuts for a procedure or command. |
| > | This symbol indicates menu commands (and subcommands) in the order you select them. For example, File > Import means to open the File menu and then select the Import command. |
| ▶ | This symbol indicates a single-step procedure. Multiple arrows in a list indicate that you perform one of the actions listed. |
| (Windows), (Windows only), (macOS), or (macOS only) | This text indicates that the information applies only to the specified operating system, either Windows or macOS. |
| Bold font | Bold font is primarily used in task instructions to identify user interface items and keyboard sequences. |
| <i>Italic font</i> | Italic font is used to emphasize certain words and to indicate variables. |
| Courier Bold font | Courier Bold font identifies text that you type. |
| Ctrl+key or mouse action | Press and hold the first key while you press the last key or perform the mouse action. For example, Command+Option+C or Ctrl+drag. |
| (pipe character) | The pipe character is used in some Avid product names, such as MediaCentral Production Management. In this document, the pipe is used in product names when they are in headings or at their first use in text. |

If You Need Help

If you are having trouble using your Avid product:

1. Retry the action, carefully following the instructions given for that task in this guide. It is especially important to check each step of your workflow.
2. Check this ReadMe file for the latest information that might have become available after the documentation was published. Also check online for the most up-to-date ReadMe because the online version is updated whenever new information becomes available. To view the online ReadMe, select ReadMe from the Help menu, or visit the Knowledge Base at <http://www.avid.com/readme>.
3. Check the documentation that came with your Avid application or your hardware for maintenance or hardware-related issues. In addition to the printed documentation supplied with your editing application, the documentation is supplied in PDF format when you install the application. Topics that you print from the Help have limited page layout and formatting features. If you want to print a higher quality version of Help information, Avid recommends that you print all or part of the PDF version of the appropriate Avid manual included in the Online Library for your editing application. To access the Online Library, select Help > Online Library from within your Avid editing application.
4. Visit Avid Online Support at www.avid.com/onlineSupport/. Online support is available 24 hours per day, 7 days per week. Search the Knowledge Base to find answers, to view error messages, to access troubleshooting tips, to download updates, and to read or join online message-board discussions.

Media Composer Notes



Systems without QuickTime installed, such as macOS Catalina and later, may experience import issues with some file formats and wrappers. In certain instances, unsupported files may not trigger any response in Media Composer during an import operation. Depending on the codec used, it may be necessary to link and transcode the file using the Consolidate/Transcode window before working with it in a project. Please refer to the following document on the Avid Knowledge Base page for more information on formats that are not supported without QuickTime:

https://avid.secure.force.com/pkb/articles/en_US/Compatibility/Media-Composer-File-Type-Support-on-macOS-Catalina



Media Composer v2022.10 does not support MediaCentral | Production Management.



(macOS Only) macOS Catalina and higher does not support 32 bit applications. The legacy Title Tool, Marquee Title Tool and QuickTime legacy codecs are no longer installed when you install Media Composer. Only install legacy codecs if QuickTime is installed on your system. The installer is Media Composer Legacy Components 2021.12.1 Mac. You can get the installer from MyAvid, Link, or the download center.



(macOS Only) macOS Catalina or higher does not support DMF (Dynamic Media Folders).



Match Frame results for the subclip of a Group or MultiGroup clip created in Media Composer v2022.7 and later will load the original subclip of the Group or MultiGroup clip. If using subclips of a Group or MultiGroup clip created in an earlier version of Media Composer, the same Match Frame operation will load the Group or MultiGroup clip.

- If you are using an AMD card and certain keyboard shortcuts that require modifier keys are not working, such as Ctrl+Shift+M or Ctrl+Shift+G for Multicam editing, then disable the AMD “Use Hotkeys” setting to fix the issue.
- If you are using an attached hardware I/O device, such as the Avid Artist DNxIQ or Avid Artist DNxIV, you may need to manually select it and activate it as an output device the first time Media Composer v2022.10 is opened. To do this, right-click on the HW/SW button in the Timeline window, select the hardware device you want to use, and click on the HW/SW button to activate it. Media Composer will preserve this selection the next time you open Media Composer.
- (MCCET-4684) Captions may overlap or merge for imported SCC files if lines of text appear in rapid succession. To avoid this possibility, clean the caption data by removing all duplicate control codes from the SCC file.
- (MCCET-2541) When working with Avid Artist DNxIO or Avid Artist DNxIQ, you should disable the Line In recording input (BlackMagic Audio in the Windows OS).
- **Avid Artist DNxIO and Avid Artist DNxIQ:** If you are using Avid Artist DNxIO, Avid Artist DNxIQ, or a BlackMagic Designs video device, please update to Desktop Video software version v12.4 or higher. If you are using Avid Artist DNxIV and Avid Artist DNxIP please update to AJA software v16.2.2 or later.
- **Qualified Operating Systems:** For information on qualified operating systems, see [Qualified Hardware and Operating Systems](#).
- **Dongle Info (macOS Only):** The Dongle Sentinel driver installer is no longer automatically installed when you install the editing application. The driver is now located in the Avid_Uilities folder (/Applications/Utilities/Avid_Uilities/Sentinel_Driver). If you have a dongle, manually install the driver from this location. Dongles are NOT supported on macOS M1 systems or any macOS system running Monterey or later.



When installing the Sentinel Driver, check your System Preferences and select “Security and Privacy.” You may need to choose to Allow the driver to be accessed.

- Media Composer now includes a **dnxmov2mxf** executable in the \Program Files\Avid\Avid Media Composer\SupportingFiles\Utilities folder. This executable allows you to manually convert MOV files with DNX essence with separately stored alpha to an MXF OP1a file with DNX essence and embedded alpha.
The tool is available for Windows, macOS and Linux. To run on Windows, Visual C++ Redistributable for Visual Studio 2015 or Visual C++ Redistributable for Visual Studio 2017 is required.
Run the command from a command prompt on Windows or from terminal on macOS.
DNXMOV2MXF usage is:
dnxmov2mxf path_to_mov [path_to_mxf]

Notes on Working with SRT

For details on working with SRT, search for “Open I/O Support for SRT” in the Help.

Decoded Output

- Due to the compressed streaming nature of SRT, and the variety of SRT decoding applications and devices available, the decoded output may not be in sync with the Media Composer desktop. Depending on the decoder being used, the output may be up to several seconds out of sync. Adjusting the buffering settings in the decoder as well as the SRT latency setting can help to improve the delay depending on your network's quality of service.

SRT Quality Bitrates

- The default quality settings for a 1080p/29.97 project are 5-15 Mbps for low, 10-30Mbps for medium and 30-80 Mbps for high. Bitrates will vary, and might exceed the average values, based on the media being sent over SRT. Bitrates are scaled based on the frame rate and raster size, and may vary in the actual bitstream based on how efficiently the codec can compress the frames.
- Only 8b quality is supported with SRT. Media Composer will automatically set the I/O to 8b quality if Media Composer is set to draft or 10b.

Projects and Media Support:

- 2K/UHD/4K projects will be downconverted to HD formats at the same frame rate. For example, if you are working on a UHD 4k 23.976 projects, it will be converted to an HD 23.976p project.
- Interlaced formats are not natively supported, but will be converted to progressive format at the equivalent frame rate.

- SRT will mix multi-channel audio to stereo audio.
- RGB is not natively supported and will be converted to YUV.



The SRT plug-in is supported with Media Composer | Enterprise and Media Composer | Ultimate licenses only.

Security Guidelines

As system and network security attacks become increasingly more inventive and persistent, Avid has adopted a new security strategy to help you, our customer and partner, better protect your assets and intellectual property. As you might know, Avid has traditionally recommended Symantec Endpoint Protection as the preferred and qualified solution for much of the Avid product line. As of Q3, 2020, Avid introduced a more flexible strategy that provides general guidelines for protecting your Avid systems. This new policy allows you to choose the best security solution for your organization, while still following Avid best practices. Avid Media Composer allows you to install an endpoint detection and response solution on your system. While Avid does not support any specific solution, you can find general guidelines and information related to CrowdStrike Falcon on the following Avid Knowledge Base page:

https://avid.secure.force.com/pkb/articles/en_US/troubleshooting/en239659

Fixed in Media Composer v2023.3

The following have been fixed:

- **Bug Number:** MCCET-4850. Opening another sequence while in the Color Correction workspace caused the Edit workspace to load and altered the layout of the original Color Correction workspace.
- **Bug Number:** MCCET-4507. When switching between working and target settings for Dynamic Relink in the Timeline, the Source Browser window turned black and did not refresh properly until clicked.
- **Bug Number:** MCCET-4843. Floating bins changed position and size each time a project was closed and reopened.
- **Bug Number:** MCCET-4569. Color Correction panel disappeared when scrubbing in the Timeline with the Color Correction workspace activated and “Clicking the TC Track or Ruler Disables Smart Tools” option enabled in the Edit tab of the Timeline Settings window.
- **Bug Number:** MCCET-4512. "Assertion failed" TimeWarp error caused Production Management check-ins to fail when the Neat Video plug-in was installed.

- **Bug Number:** MCCET-4720. Keyboard shortcuts for parameter values in the Effect Editor did not work as expected after using sliders.
- **Bug Number:** MCCET-4948. In some instances, Media Composer would not relink all partially restored audio files when using Dynamic Relink.
- **Bug Number:** MCCET-4760. (MediaCentral | Production Management) In some instances, logging out of Production Management with media status indicators for Resolution enabled (black "dots" in columns within the Production Management Window) caused the application to hang.
- **Bug Number:** MCCET-4521. (MediaCentral | Production Management) The media status indicator in the Production Management Window, represented by a black dot in the corresponding format column, did not display properly when media was online and available.
- **Bug Number:** MCCET-4960. (macOS) Some user interface elements would disappear from the bottom row of the Markers window when the window or its columns were resized.
- **Bug Number:** MCCET-4738. Media Composer crashed while scanning and rebuilding the database for UME folders containing a large number of MXF OP1a files.
- **Bug Number:** MCCET-4913. (MediaCentral | Production Management) Some audio tracks were offline after using portions of master clip in a sequence and delivering with Production Management Delivery Service.
- **Bug Number:** MCCET-4628. AAF files exported from Media Composer and opened in Pro Tools caused some values to change for fades, clip gain, and other audio parameters.
- **Bug Number:** MCCET-4784. Spanned media did not link properly and would revert to media offline when Dynamic Relink was enabled.
- **Bug Number:** MCCET-4870. Labels were inverted in the surround sound pan controls of the Audio Mixer for tracks panned between the front and rear (f/r) speaker positions. Although the labels were incorrect, pan controls for the Y-axis position of the panner were not affected.
- **Bug Number:** MCCET-4961. (macOS) Media Composer 2021.12.6 would not allow the creation of projects and bins on shared NEXIS storage.
- **Bug Number:** MCCET-4409. Users were prevented from creating more than 999 bins at the root level of the project folder.

- **Bug Number:** MCCET-4816. Group clips were incorrectly scaled in the Record monitor if a gap existed before the clips in a sequence and the resolution of clips did not match the project settings.
- **Bug Number:** MCCET-4882. MultiGroup clips with audio waveforms enabled caused Media Composer to crash.
- **Bug Number:** MCCET-4915. When performing a Dynamic Relink operation, audio was offline for clips with audio tracks not starting at A1.
- **Bug Number:** MCCET-4957. Adding a Baselight or Magic Bullet Looks effect to a sequence caused "an unrecoverable error has occurred" or "a serious error has occurred" message to appear when relaunching a project with that same sequence already opened.
- **Bug Number:** MCCET-4977. Enabling "Show Target Availability" or "Show Mismatches" for Dynamic Relink caused a decrease in performance while working in the Timeline.
- **Bug Number:** MCCET-4976. The "Override all Bin font sizes" option in User Interface Settings did not work when applied.
- **Bug Number:** MCCET-4587. (MediaCentral | Cloud UX) In some instances, the MediaCentral | Cloud UX panel would not load after logging out and logging back in with a different user.
- **Bug Number:** MCCET-4895. (MediaCentral | Cloud UX) In some instances, the MediaCentral | Cloud UX panel would not load after logging out and logging back in with the same user and a different project.
- **Bug Number:** MCCET-4503. Audio clip gain values were lost and returned to unity gain if the clip was re-rendered, after making an adjustment to any plug-ins that were already applied and rendered.
- **Bug Number:** MCCET-4970. (MediaCentral | Production Management) Ingesting P2 files and creating sequences of clips using third-party MintUpload software caused an "Assertion failed: *expectedBytesRead" error.
- **Bug Number:** MCCET-4706. Enabling Dynamic Relink caused linked .mov QuickTime files with a Matte Key (DNxHD with alpha) to go offline.
- **Bug Number:** MCCET-4602. Master Caption List was out of order when the SubCap effect was placed on two tracks and some captions were muted.
- **Bug Number:** MCCET-4803. Linking or Importing Apple ProRes 4444 Mov files created with an Arri Alexa Mini caused Media Composer to quit unexpectedly if QuickTime was installed.

- **Bug Number:** MCCET-4407. Selecting multiple lines of dialog in the Script window and pressing the spacebar (or right-clicking and selecting "play" from the context menu) caused the incorrect line of dialog to play back.
- **Bug Number:** MCCET-4814. (macOS) When loading a subclip in the Script window, an in point was automatically marked at the end of the clip.
- **Bug Number:** MCCET-5029. When using "Transcode on Send to Playback" with a sequence that has Group clips, the Send to Playback would fail.
- **Bug Number:** MCCET-4953. (MediaCentral | Production Management) Audio waveforms for linked clips were very slow to draw, which significantly impacted performance and the ability to work within the interface.
- **Bug Number:** MCCET-4573. Media Composer was slow to launch when using the Floating License backup server.
- **Bug Number:** MCCET-3909. Media Composer appeared to hang on launch when using a checked-out license with no VPN connection to the license server.
- **Bug Number:** MCCET-5027. The Timecode Window, accessed via the Tools menu, would not redraw properly after changing the size of its font, which affected the amount of black space in the window.
- **Bug Number:** MCDEV-17005. Splitter in Effect Palette changed position after a restart.
- **Bug Number:** MCDEV-15381. Highlighted text in the Comment field of the Marker tool was white on white and difficult to read when using dark interface skins.
- **Bug Number:** MCDEV-15832. Track names containing dots caused a triangle to appear on the Track Selector panel.
- **Bug Number:** MCDEV-16738. "Sync Lock All Tracks" button command did not work if Timecode (TC) track was hidden.
- **Bug Number:** MCDEV-17162. The Lock/Unlock Sequence commands, activated by Option+Right-Clicking (macOS) or Alt+Right-Clicking in the Track Control panel, did not lock all tracks and displayed inconsistent messaging.
- **Bug Number:** MCDEV-16680. Fast Menu and Quick Find Field were not always visible in the Markers tool or Timeline Clip Notes windows, until windows were resized to show scrollbar.

- **Bug Number:** MCDEV-15189. Source Browser would not attach as expected to other tools and windows via its tab in the vertical title bar.
- **Bug Number:** MCDEV-17579. Double-clicking on a search result multiple times in the Find window caused the bin containing the clip to eventually float and close.

Limitations

The following are known limitations

- Photoshop PSD files are not supported for AMA linking if QuickTime is not installed.
 - Some fonts, by their design, are available only in Bold. On the macOS system it can happen that selecting a font does not produce any visual changes. Try selecting “Bold.”
 - If you launch a project and receive an “Enable 3rd Party Emulation” warning, even if you select Enable in the warning dialog, you should also perform the following: Select File > Settings and click the Project tab. Click General Settings and select “Enable Bin Sharing on 3rd party storage emulating Avid NEXIS/ISIS.”
- **Bug Number:** MCCET-4971. Beginning with Media Composer 2022.12, it is not possible to map “Create > New > Sequence” as a keyboard shortcut using “Menu to Button Reassignment” in the Command Palette. Attempting to map that function results in a “That menu item cannot be assigned” dialog box. This limitation is due to the expanded functionality offered by the new submenu, which is generated dynamically, and does not allow for mapping of functions that are not persistent and might change.

Workaround: Use Cmd+Shift+N (macOS) or Ctrl+Shift+N (Windows) to create a new sequence using the currently active Sequence Template.

- **Bug Number:** MCDEV-17243. Proxy playback fails when Disk Cache is off or set to “0”.

Workaround: Avid NEXIS | EDGE users must set their Disk Cache to 1GB or greater.

- **Bug Number:** MCDEV-16685. When SRT is disabled, hardware format does not revert to project settings, resulting in a mismatch between UHD and HD formats, and causing errors in the Capture tool.

Workaround: Manually change video output to match project settings when Capture tool is opened and SRT is disabled.

- **Bug Number:** MCDEV-15629. Icons for managed Matte Key clips do not change color when their proxies are created and resolved.

Workaround: Check the Proxy Offline column for online/offline status.

- **Bug Number:** MCDEV-17081. In some instances, there is no warning that high resolution media is offline and proxy media will be used for output.
- **Bug Number:** MCDEV-15413. In some instances, clips that will link and play cannot be made into a proxy if it includes a broken data track.
- **Bug Number:** MCDEV-16119. (Avid Artist DNxIQ) When trying to capture audio, you might receive an “Audio/video is unexpectedly no longer coming into the system” exception error. Note that this only happens the first time, subsequent audio captures are successful.

Workaround: Perform a capture with video first and then turn video off for the subsequent captures.

- **Bug Number:** MCDEV-15843. (Windows 11) In some instances, you cannot drag and drop from the File Explorer to a bin.

Workaround: Use the Media Composer Source Browser to import or link your media.

- **Bug Number:** MCDEV-14845. Avid Media Composer | Enterprise Admin Tool does not restrict NDI when Media Composer is in software only mode.
- **Bug Number:** MCCET-3702. Image Quality issues when adding UHD progressive clips to an HD interlace sequence:

The process Media Composer uses to mix and match video formats in a sequence is to transform the source clip's frame rate and frame layout to meet the project specifications; the motion adapters are added first, then spatial adapters are applied in order to provide expected playback dimensions.

For example, if you have a UHD 50p clip that you want to add to a 1080i Timeline, the UHD clip first gets split into 2 separate fields (UHD format), then each field gets independently resized to 1920x540 in HD. The export process puts those resized fields back together into a progressive HD frame but does not maintain the clarity of the original progressive frame.

Workaround: If you first transcode the UHD progressive clip to HD progressive and then add the HD clip to the interlace sequence, it forces the resize operation from UHD to HD to be done before the split gets into interlace mode.

- **Bug Number:** MCCET-3788. You might receive a “*clip name* is a clip in a multi-essence file that cannot be exported using the specified Embedded in AAF setting” when exporting embedded AAFs with OP1a audio clips.

Workaround: Consolidate the OP1a clips to Avid OP-Atom prior to performing the export.

- **Bug Number:** MCDEV-12988. (macOS) The AMA Drastic plug-in is not supported with Media Composer v2020.4
- **Bug Number:** MCDEV-12735. Maestro graphics do not appear correctly in the Timeline if your system uses the Radeon video card.
- **Bug Number:** MCDEV-11481. Promoting a title from the Title Tool application to Avid Titler+ cannot be performed if it includes a motion adapter.
- **Bug Number:** MCDEV-11796. DPX files larger than 10bit might fail to link correctly.

Workaround: Go to File > Settings and click the User tab. In the Link Settings, click the Link Options tab and make sure Alpha Channel is set to Ignore.

- **Bug Number:** MCDEV-14376. Media Tool ignores the “Current project” filtering option and lists MXF OP1a media files that are not associated with the current project.
- **Bug Number:** MCDEV-8641. (AMD Graphics). Systems with AMD graphics cards might display tearing when performing Full Screen playback.
- **Bug Number:** MCDEV-9269. (Media Composer | Cloud Remote) After performing a remote download operation on a sequence containing AVC-I 100 remote media, the downloaded media appears as XAVC-I 100.

Workaround: Download the entire master clips.

- **Bug Number:** COGS-2560. While working in the Script Window, text operations (cut/copy/paste/delete/editing) can only be done in edit mode. See “Editing a Script” in the Help.

Before Installing the Editing Application

(Windows) Overwriting During the Install Process

If you are upgrading from version v2020.12.x or later, you can choose to perform an overwrite during the install process. For versions prior to that, you must perform a manual uninstall first.

Media Composer | Enterprise and Media Composer | Distributed Processing

If you are working with Media Composer | Enterprise or Media Composer | Distributed Processing, please refer to the “Installation Prerequisites” section in the *Media Composer | Enterprise Administration Guide* and *Media Composer | Distributed Processing Administration Guide* to make sure you have compatible Avid MediaCentral Cloud UX Platform ISO and Avid MediaCentral Cloud UX Feature Pack ISO versions.

Before Installing the Editing Application in a MediaCentral | Production Management Environment

Carefully read through the “Avid Editor Compatibility Matrix” guide (found using the following link) before upgrading. It might be necessary to also upgrade the MediaCentral Production Management components on the editing client.

http://avid.force.com/pkb/articles/en_US/compatibility/Avid-Video-Compatibility-Charts

Buffer Error Message

The editing application requires a minimum of 8GB RAM. If you try to install the editing application on a system with less than 8GB RAM, you will receive a buffer error and installation will not proceed.

Download Note

To avoid “File Path too long” or a “File cannot be copied” warning while unzipping the downloaded installer, try placing the installer.zip on the root level of your C:\ drive and unzip it from that location.

User Right to Raise Thread Priority

(Windows) Note for Domain Administrators: If your editing systems are part of a domain, you must give the user the right to “Increase Scheduling Priority.” This must be done within the Domain Group Policy on the domain controller by giving the right explicitly to the user or giving the right to a group and adding the user to that group. You will not be able to launch as a regular user if this is not set properly.

If you are part of a domain, a Domain Administrator should install and perform the first launch of the editing application.

Install as Administrator

You need to first install and launch the editing application as an Administrator. If you are in a Shared Storage environment, mount your workspaces as an Administrator. You may then log off and log back in as a Standard user, if necessary.

After Installing the Editing Application

AMA Plug-Ins

You cannot install the AMA Plug-ins while the editing application background services are running. Make sure you Stop the services before installing the AMA Plug-Ins. The stop/start background services icon is on the menu bar (macOS) or taskbar (Windows). Once you install the new AMA plug-in, restart the services. See “Starting and Stopping Avid Background Services” in the Help.

Notes on Software Licensing

If You Upgrade Your Operating System

If you need to upgrade your operating system after you install your Avid editing application, first deactivate your software. After you upgrade your operating system and, if required, reinstall your application, you can reactivate your software. For information on activating and deactivating your software license, see the *Installation Guide for Avid Editing Applications*.

Minimum RAM Recommendation

For this release Avid recommends 16 GB minimum, 32 GB recommended. Some features might require more RAM and specific hardware. See “[Feature Performance](#)” on [page 16](#) for more info.

Qualified Hardware and Operating Systems

Some features are processor-intensive and require specific hardware. See “[Feature Performance](#)” on [page 16](#) for more info.

For 3rd-Party Open IO hardware qualification refer to the manufacturer’s documentation. See the Open IO Frequently Asked Questions document on the Knowledge Base: http://avid.force.com/pkb/articles/en_US/faq/en422991

The following lists the qualified Operating Systems. Depending upon your hardware the qualified Operating Systems are:

- Windows 10 64-bit 21H1, 21H2, and 22H2 or later (Professional and Enterprise)
- Windows 11 64-bit 21H2, 22H2 or later (Professional and Enterprise)
- macOS 10.15.7, 11.x to 11.7, 12.x to 12.6.x, and 13.0 to 13.2.1



macOS 10.14.6 Mojave is not supported with Media Composer 22.4 and later releases.



Avid has not qualified macOS 12.x with the CrowdStrike anti-virus application.



With the release of macOS 10.13.x and higher, Apple requires manual approval of loading Kernel Extensions (KEXTs). (For example BlackMagic, and AJA IO devices install Kernel Extensions.) At installation time, you should get a dialog saying that the KEXT was not loaded. You must go the “Security & Privacy” system preference and manually approve the KEXT. Keep the Security & Privacy pane open after you install the I/O device drivers so that you will see the notice that the driver has been blocked and press the “allow” button within 30 minutes of installing or the driver will be permanently blocked.

Qualified Workstations and Laptops

For a list of qualified Windows and macOS systems, go to the following page: [Avid qualified systems](#). Select either the Windows or macOS CPU Specifications pdf.

Feature Performance

A number of features in this editing application are processor-intensive. As a result, you might experience problems if you are working on an older system. The following chart shows the hardware that Avid has successfully qualified when using these features. For a list of the qualified systems, see [Qualified Workstations and Laptops](#).

| Feature | Description | Recommended System |
|--------------|------------------|--|
| 16K projects | 96GB RAM minimum | 48+ core Intel Xeon or AMD Threadripper CPU systems with Nvidia RTX graphics |

| Feature | Description | Recommended System |
|---|--------------------------------------|--|
| Editing High Resolution, High Frame Rate XAVC-I Media (UHD/4k in 59.94p) 4 streams of media and color adapters | 64 GB RAM minimum, 96 GB recommended | HP Z8, Z6, Lenovo P920, P720, P620 Dell 7920, Dell 7820 <ul style="list-style-type: none"> • Dual gold 6254 3.1 Ghz turbo to 4.0 Ghz 18-core (72 with HT) • Dual Xeon Gold 6154 3.0 Ghz, turbo up to 3.7 Ghz 18-core (72 cores with Hyperthreading) • AMD W5700, AMD W6800 & Pro VII • Nvidia RTX 5000, RTX 6000 • Nvidia RTX A6000, RTX A5000 Storage: 10Gb Ethernet Avid NEXIS |
| 1080p/50 XAVC Long Baseband Capture | 32 GB RAM minimum | Qualified PC Dual 6 Core or higher Qualified Mac Pro 6 core or higher, 12 core with Hyperthreading |
| Editing High Resolution, High Frame Rate DNxHR Media (UHD/4k in 59.94p) | 32GB Min, 64 GB recommended | HP Z8, Z6, Lenovo P920, P720, P620 HP Z840 HP Z640 Dell 7920/7910 Dell 7820/7810 Lenovo P910/P900/ Lenovo P710/P700 <ul style="list-style-type: none"> • NVIDIA RTX 5000, 6000, AMD W6800 & Pro VII • NVIDIA P5000, M5000 or K5200 and AMD W5700 PCIe Gen3 Gfx card (recommended) Mac Pro 2019 <ul style="list-style-type: none"> • 16 core (32 with Hyperthreading) 3.2 GHz • AMD Radeon Pro Vega II Storage: 10Gb Ethernet Avid NEXIS |

| Feature | Description | Recommended System |
|---|---|--|
| Editing High Resolution Media (Higher than 2K+) | 32 GB RAM minimum | Qualified PC Dual 6 Core or higher Qualified Mac Pro 6 core or higher, 12 core with Hyperthreading |
| DMF and Background Transcode, Background Render | 32 GB RAM recommended | Qualified PC Dual 6 Core or higher Qualified Mac Pro 6 core or higher, 12 core with Hyperthreading |
| Media Composer Cloud | 16 GB RAM minimum. 24 GB or higher recommended depending upon system model. | i7 Quad core or higher with Hyperthreading |
| J2K Capture | 16 GB RAM minimum | Qualified PC Dual 6 Core or higher Qualified Mac Pro 6 core or higher, 12 core with Hyperthreading |
| HD Long GOP 9-way MultiCam with high stream count sequences | 32 GB RAM recommended | Qualified PC Dual 6 Core or higher Qualified Mac Pro 6 core or higher, 12 core with Hyperthreading Storage: 2 x 1 Gb Ethernet or higher Avid NEXIS |
| Stereoscopic 3D | For optimal performance with Stereoscopic 3D, use these higher performance systems. Avid recommends a minimum of 16GB RAM when using Stereoscopic 3D. | Qualified PC Dual 6 Core or higher Qualified Mac Pro 6 core or higher, 12 core with Hyperthreading |
| XDCAM HD50 Capture | Baseband capture through Open I/O | Avid qualified systems |
| HD RGB 4444 Apple ProRes 4444 DNxHD 4444 | HD RGB capture requires a high-end workstation with Open I/O and fast storage. | Qualified PC Dual 6 Core or higher Qualified Mac Pro 6 core or higher, 12 core with Hyperthreading Storage: 10Gb Ethernet Avid NEXIS |

| Feature | Description | Recommended System |
|--------------------|---|--|
| AMA (QuickTime) | AMA is a processor intensive operation. Lower end platforms may not offer optimum performance. Highly compressed codecs such as H.264 will exhibit minimal real-time performance. | Recommendation of qualified systems depends on your planned use of this feature. Heavy usage of highly compressed codecs requires high-end systems. (Dual 6 Core or Dual 8 Core systems) |
| AMA (RED) | AMA is a processor intensive operation. Older platforms may not offer optimum performance. You will get better performance with higher-end workstations. | Qualified Xeon Workstations NOTE: RED plug-in uses the Graphics Processor. Better performance with high performance graphics cards. |
| AVCI-Intra Capture | AVC-Intra capture with software codecs is supported. | 24 core and higher Windows systems only. |
| AVCI-Intra | AVC-Intra (AVC-I) is a high quality, low bit-rate HD codec and is very CPU intensive. | 4-Way MultiCam Playback Dual Quad Core, Dual 6 Core or Dual 8 Core Systems Four Stream Playback: Dual Quad Core, Dual 6 Core or Dual 8 Core Systems |

Avid Artist I/O Device Compatibility

The following table shows the minimum version Media Composer supported with the Avid Artist I/O devices.

You must download the appropriate Avid Artist software from your [Avid Master Account](#).

| Device | Minimum supported version Media Composer |
|---------------------|--|
| Avid Artist DNxIO | Media Composer v8.4.1 and higher |
| Avid Artist DNxIQ | Media Composerv8.8.3 and higher |
| Avid Artist DNxIV | Media Composer v8.10 and higher |
| Avid Artist DNxIP | Media Composer v2018.8 |
| Avid Artist DNxID | Media Composer v2018.9 |

Compatibility Chart

The following table lists the NVIDIA® driver, QuickTime®, Windows Media™, shared storage, Sony® XDCAM™, Panasonic® P2, and Avid Artist Series versions that were qualified with the Avid editing applications. You can also refer to [Documentation and version matrix](#).

IMPORTANT: For information on third party support (for example, Sorenson, Boris, etc) see the third party's web site.

| Item | Versions | Comments |
|------------------------|--|--|
| QuickTime Support | v7.7.9 (Windows) v10.x, (v7.x legacy) (macOS) | Note: QuickTime v10X does not include QuickTime Pro options. Note: QuickTime is not supported with Windows 10. https://avid.secure.force.com/pkb/articles/en_US/How_To/QuickTime-Support-and-Security-on-Windows |
| Avid Interplay Support | See Knowledge Base article on compatibility. | IMPORTANT: The Avid Interplay components that get installed on the editing application must be updated to the Avid Interplay version that is released with the editing application. These include the Media Indexer, Interplay Access, Interplay Framework, Interplay Transfer Client and ProEncode Client. The Avid Interplay Server components can remain on the previous releases listed as supported. For details, see the “Avid Editing Application Compatibility with Interplay Releases” doc on the Knowledge Base. |
| NVIDIA Driver Support | v514.08 | See “ Setting up the NVIDIA Card ” on page 21 . For setting up the driver for stereoscopic, see the NVIDIA setup info in the Stereoscopic 3D Workflow Guide. This version supports NVIDIA vGPU Software 14.4 for Virtual Machines. For more information visit Nvidia.com . |

| Item | Versions | Comments |
|-------------------------------|--|--|
| AMD Driver Support | 22.Q4 | Note: DO NOT update to 22.Q3 - it does not work with Media Composer. Also, 22.Q2 is known to cause intermittent errors. For more information visit Amd.com |
| Shared Storage Support | Avid NEXIS and Avid ISIS®. | See “ Shared Storage Support ” on page 23 . |
| Sony XDCAM driver | v2.13 (XDCAM Transfer for macOS) Windows FAM v2.3.2 and VFAM v5.0.2 | The VFAM firmware version for PDW-U1 is 2.600. The PDW-U2 is 2.810. The driver can be downloaded from Sony's website http://esupport.sony.com/ . |
| Panasonic P2 drive | (macOS) v3.1.7 (Windows) v2.24 | There is currently no P2 writeback support for macOS clients. |
| Avid Artist Series (Euphonix) | EuControl software v3.4 | See the User’s Guide for information on Artist Series Color setup information. |

Media Composer Compatibility with Audio Devices

For details on compatible audio hardware and software:

| Audio Hardware and Software | Refer To |
|--|--|
| Control Surfaces | Supported Control Surfaces |
| Avid Artist I/O | Supported Avid Artist I/O Devices |
| Media Composer and ProTools Co-install | Co-install information for Media Composer and ProTools |

Setting up the NVIDIA Card

To set up the NVIDIA card, you must make sure you have the correct display driver version (install the display driver if necessary, and set the correct display settings. See the “[Compatibility Chart](#)” on [page 20](#) for information on the supported driver(s).

Prior to setting up the NVIDIA card, check to make sure you have the correct display driver version. If you do not have the correct NVIDIA driver, you can install it from the Nvidia website - [Nvidia.com](https://www.nvidia.com).

To check the NVIDIA display driver version:

1. Right-click the Desktop and select NVIDIA Control Panel. You can also open the Windows Control Panel and double-click the NVIDIA Control Panel icon.
2. Click System Information at the bottom left corner of the NVIDIA Control Panel.

The version number is listed in the Graphics card information section on the ForceWare version line.

To install the NVIDIA display driver:

1. Download the applicable Nvidia driver from the Nvidia website - [Nvidia.com](https://www.nvidia.com).
2. Double-click the file for the applicable driver.
3. Follow the on-screen instructions, and then restart your system.

To setup multiple displays:

1. Right-click the Desktop, and select Nvidia Control Panel.
2. In the settings window in the left of the window, click Set up multiple displays.
3. Select or deselect the desired monitors listed.

To set the Driver for Avid Editing Environments

1. Right-click the Desktop, and select Nvidia Control Panel.
2. Select the Desktop menu selection in the Control Panel menu bar.
3. Enable Desktop > Video Editing Mode.
4. Click Manage 3D Settings.
5. Click the Global Setting tab.
6. Under Global presets, select Base Profile.
7. Scroll to locate the Power Management Mode. Select Prefer maximum performance.
8. Click Apply.

Reboot after installing the Nvidia software even if you are not prompted to do so. Never use the Windows “roll back driver” feature on the Nvidia driver. The driver version must match the rest of the components the Nvidia installer installs.

Shared Storage Support

For information on Shared Storage Support, see the Avid NEXIS and Avid ISIS tables in the following document:

http://resources.avid.com/SupportFiles/Attachments/MediaCentral_Compatibility_Matrix.pdf

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