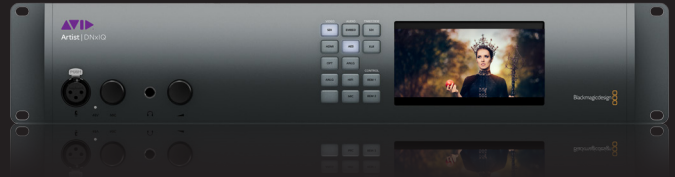




# Avid Artist | DNxIQ



Avid Artist | DNxIQ™ is a powerful, professional video I/O interface designed to simplify and accelerate your entire HD, high-res, and Ultra HD workflow. Available as standalone hardware or bundled with industry-standard Media Composer® software, Avid Artist | DNxIQ enables you to capture, monitor, and output media quickly—in the highest quality possible. And because the interface, which includes hardware by Blackmagic Design, is designed to be open and flexible, you can use it with Avid and other creative tools too. Only Avid Artist | DNxIQ includes Audio Punch-in for Media Composer via the front panel mic input, and baseband hardware encoding of Avid DNxHR media.

## Key features

- Capture and play back SD, HD, Ultra HD, 2K, and 4K media
- Edit faster and more efficiently with onboard media encoding and conversion
- Work with your favorite creative tools, including Media Composer, DaVinci Resolve, Apple Final Cut Pro, and Adobe Premiere Pro
- Connect a wide range of video and audio gear through a host of connections, including:
  - Four sets of 4 SDI connectors—4 in, 4 loop, 4 out, 4 repeated out, each set supporting up to 12 Gb/s via single, dual, and quad link
  - Two optical I/O supporting 3 Gb/s and 6 Gb/s; 12 Gb/s coming soon (modules not included)
  - HDMI 2.0 I/O
  - Analog video I/O—component and composite
  - Balanced analog audio—4 XLR inputs, 4 XLR outputs
  - AES/EBU—2 channels in, 2 channels out
  - Stereo RCA input for consumer audio devices
  - XLR mic input with 48V phantom power on front panel with level control
  - Stereo headphone output with level control
- Quickly cross-convert formats on baseband output SDI, HDMI, and analog connections with Universal Mastering
- Monitor media ingest and output conveniently using the front-panel HD LCD display
- Select video, audio, and timecode inputs, or control decks, using front panel controls
- Connect to the latest generation computers using Thunderbolt 3 or PCIe connections
- Remotely control up to two external devices
- Get reliable operation—and peace of mind—with redundant power supplies

*\* Onboard Avid DNxHR encoding for capture workflows requires Media Composer 8.4.5 or greater, or a third-party software application that has enabled this capability. See next page for details.*

## Capture and play back stunning high-resolution video

Create and deliver rich, detailed media in the highest quality imaginable, from first ingest to final output. Avid Artist | DNxIQ features advanced 12G-SDI, optical and HDMI 2.0 connections that enable you to work with HD, 2K, Ultra HD, and 4K material. It supports frame rates up to 60 fps, bit depth up to 12 bits, and 2D or stereoscopic 3D media. And because it comes jam-packed with a wide array of analog and digital connections, it can be used with just about every camera, deck, display, and device you have or want.

## Create with your favorite video and audio tools

With support for an ever-growing list of Avid and third-party media tools, Avid Artist | DNxIQ is an easy and ideal fit for any production environment. Capture and edit footage with Media Composer, Apple Final Cut Pro, Adobe Premiere Pro, DaVinci Resolve, and other video editing software. Use Adobe After Effects, Adobe Photoshop, Fusion, and other software to get the looks you want. And couple it with Pro Tools and other popular DAWs to work on your audio.

## Accelerate creative editorial with Media Composer

Bundle Avid Artist | DNxIQ with Media Composer and you gain the advantages of having the most trusted and proven editorial tool in the industry at your fingertips. Edit Ultra HD, 2K, 4K, and other high-res media natively. Work in any resolution with Avid Resolution Independence. Experience real-time high-res editing with Avid DNxHR. Directly edit a wide range of file-based media without transcoding. And because you can automate time-consuming tasks in the background, you'll have more time to focus on telling your best story possible.

## Work faster and more easily

More than just an in and out device, Avid Artist | DNxIQ offers additional benefits to speed and ease your workflow. Edit massive 4K files more easily by using the built-in hardware encoder to capture to Avid DNxHR.\* Quickly convert media and color spaces with onboard hardware processing. Connect a mic to the front panel for convenient audio punch-in workflows. Monitor media ingest and output on the built-in LCD screen. Select inputs with a press of a button. Get real-time format and frame-rate conversion on output and playback with Universal Mastering. And with Thunderbolt 3 technology, you get blazingly fast computer connection speeds, delivering the lowest possible latency and greatest time sync accuracy (supports PCIe too).

For more information, visit [www.avid.com/DNxIQ](http://www.avid.com/DNxIQ)



| Supported media                      |   |
|--------------------------------------|---|
| Video formats                        | SD—PAL (625, 50i), NTSC (525, 29.97i)<br>HD—720p (50, 59.94, 60), 1080i (50, 59.94, 60), 1080PsF (23.976, 24, 25, 29.97, 30), 1080p (23.976, 24, 25, 29.97, 30, 50, 59.94, 60)<br>High-res—2K (23.98PsF, 24PsF, 25PsF, 23.976p, 24p, 25p), 4K (23.976p, 24p, 25p (SDI only)), Ultra HD (23.976p, 24p, 25p, 29.97p, 30p, 50p, 59.94p, 60p) |
| Audio sample rate                    | 24-bit, 48 kHz (television standard)  |
| Supported color spaces               | YUV 4:2:2, RGB 444, REC 601, REC 709, REC 2020, P3; 12-bit (SDI) or 10-bit (HDMI) color precision   |
| Video connections                    |   |
| SDI video input                      | Two 12 Gb/s and two 3 Gb/s connectors (SD/HD/2K/UltraHD/4K)—supports single, dual, and quad link inputs (4:2:2 / 4:4:4); 2D/3D switchable   |
| SDI video loop                       | 4 x relocked SD/HD/2K/UHD/4K linked to corresponding inputs   |
| SDI video output                     | Two 12 Gb/s and two 3 Gb/s connectors (SD/HD/2K/UltraHD/4K)—supports single, dual and quad link outputs (4:2:2 / 4:4:4); 2D/3D switchable   |
| SDI Video Repeated Output            | 2 x 12 Gb/s and 2 x 3 Gb/s SD/HD/2K/UHD/4K. Supports single, dual and quad link outputs (4:2:2/4:4:4); 2D/3D switchable.  |
| Analog input                         | One Component YUV via three BNC connectors (SD—YCbCr; HD—YCbCr/RGB); one composite NTSC/PAL via one BNC connector (SD)  |
| Analog output                        | One Component YUV via three BNC connectors (SD—YCbCr; HD—YCbCr/RGB); one composite NTSC/PAL via one BNC connector (SD)  |
| Digital I/O                          | Two optical I/O supporting 3Gb/s and 6Gb/s, 12Gb/s coming soon (modules not included)   |
| HDMI I/O                             | HDMI 2.0 type A connectors  |
| Audio connections                    |   |
| Analog input                         | Four channels of professional balanced analog audio input via XLR; two-channel RCA input; one front-panel mic input via XLR with 48V phantom power  |
| Analog output                        | Four channels of professional balanced analog audio output via XLR; stereo headphone output with volume control   |
| Digital I/O                          | Two channels of unbalanced AES/EBU I/O, with sample rate conversion, via BNC connectors; eight channels of HDMI I/O embedded in SD, HD, UHD, 2K, and 4K   |
| SDI I/O                              | 8 input and 8 output audio channel embedded in SD; 16 input and 16 output channels embedded in HD, UHD, 2K, and 4K  |
| Host connections                     |   |
| Computer                             | One Thunderbolt 3 (cable sold separately), one PCI Express (card/cable sold separately)   |
| Device control                       | Two Sony-compatible RS-422 deck control ports   |
| Hardware scaling/processing          |   |
| Down conversion                      | Built-in, high-quality hardware down conversion—Ultra HD to 1080 HD, or HD to SD on SDI B, or and SD on Component and NTSC/PAL selectable between letterbox, anamorphic 16:9, and center cut 4:3 styles   |
| Up conversion                        | Built-in, high-quality hardware up conversion—SD to 720 HD or 1080 HD on playback; selectable between 4:3 pillarbox, 14:9 pillarbox, and 16:9 zoom; HD outputs via HD-SDI, HDMI, and component analog   |
| Cross conversion                     | Built-in, high-quality hardware cross conversion—720p to 1080i and 1080i to 720p on playback  |
| Other hardware conversion            | Colorspace conversion   |
| Real-time keyer                      | Alpha channel over video or matte, or frame buffer over incoming video or matte   |
| 3D processing                        | Frame-compatible/frame packed   |
| Codec support                        | Onboard Avid DNxHR encoding for capture workflows*  |
| Additional features                  |   |
| Clock source (selectable/detectable) | Genlock/Reference Clock (BBG or Tri-level), Genlock/Reference Clock output/pass-through (BBG or Tri-level), SDI (SD and HD), AES/EBU, HDMI  |
| Timecode I/O                         | One XLR Timecode input, one XLR Timecode output   |
| Ancillary data support               | SDI VITC reader, RP188, NTSC closed captioning, HD-SDI closed captioning, pass-through all (HD, 4K)   |
| Additional specifications            |   |
| Power supply                         | Two built-in international AC power supplies with IEC C14 inlet (120–240V, 50–60 Hz)  |
| Operating temperature                | 32°–104° F (5°–40° C)   |
| Storage temperature                  | -4°–113° F (-20°–45° C)   |
| Relative humidity                    | 0–90% non-condensing  |
| Dimensions (Width)                   | With rack ears: 19 inches (482 mm); without rack ears: 16.5 inches (420 mm)   |
| Dimensions (H x D)                   | 3.5 (2RU) x 9.5 inches (88.4 x 242 mm)  |
| Weight                               | 8.6 lbs (3.9 kg)  |

\* Onboard Avid DNxHR encoding for capture workflows requires Media Composer 8.4.5 or higher, or a software application that has enabled this capability. Media Composer 8.4.5 supports hardware encoding of Avid DNxHR LB (Low-Bandwidth), with Avid DNxHR SQ, HQ, HQX, and 444 coming soon.

## SOFTWARE COMPATIBILITY\*

- Avid Media Composer
- Avid Media Composer | NewsCutter® Option
- Avid Media Composer | Symphony® Option
- Avid Pro Tools® (coming soon)
- Adobe After Effects CC
- Adobe Photoshop CC
- Adobe Premiere Pro CC
- Apple Final Cut Pro X
- Blackmagic Design DaVinci Resolve
- Blackmagic Design Fusion

## SYSTEM REQUIREMENTS\*\*

- Avid-qualified computer running one of the following operating systems:
  - Mac OS X 10.11, 10.12
  - Windows 7, Windows 8, Windows 10



Bundle Avid Artist | DNxIQ with Media Composer to maximize your HD and high-res efficiency.

## WHAT'S INCLUDED

### Avid Artist | DNxIQ

- Avid Artist | DNxIQ video hardware interface
- Two power cables (for redundant connections)
- Fusion Connect plug-in for Media Composer

### Avid Artist | DNxIQ with Media Composer

- Avid Artist | DNxIQ video hardware interface
- Two power cables (for redundant connections)
- Media Composer perpetual license (software download required—software never expires)
- Fusion Connect plug-in for Media Composer
- One-year Avid upgrade and support plan—provides all Media Composer upgrades and expert help for 12 months, renewable annually

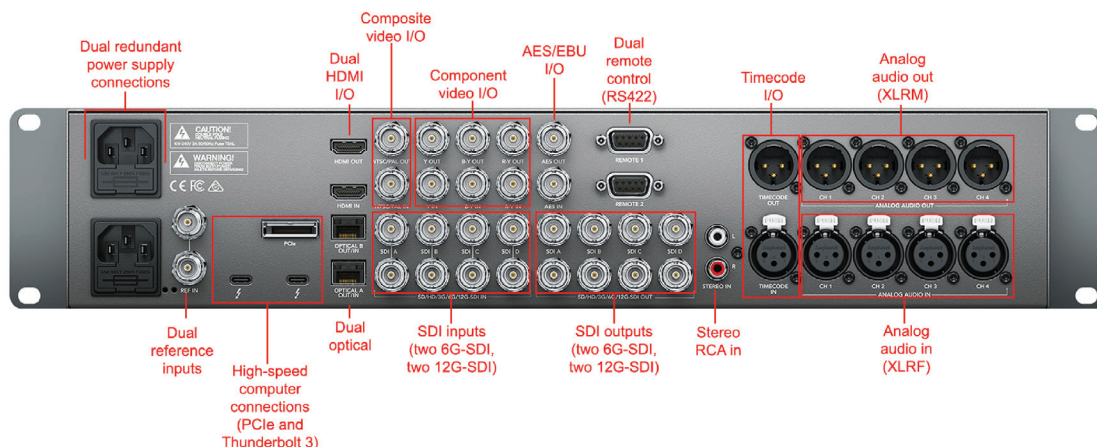
### Avid Artist | DNxIQ with Media Composer subscription

- Avid Artist | DNxIQ video hardware interface
- Two power cables (for redundant connections)
- 2-year Media Composer subscription (software download required—must renew subscription after 24 months to continue using the software)
- Fusion Connect plug-in for Media Composer
- Avid upgrade and support plan—provides all Media Composer upgrades and expert help throughout an active subscription

**Important:** Please note that Avid Artist | DNxIQ does not include Thunderbolt or PCIe cables for connection to a host computer; cables must be ordered separately. Avid offers certified Thunderbolt and PCIe options for purchase.

\* Please note that the specifications and software compatibility displayed are preliminary and subject to change.

\*\* Additional system requirements are dependent on the software you use with Avid Artist | DNxIQ.



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For more information, visit [www.avid.com/DNxIQ](http://www.avid.com/DNxIQ)