



Avid Artist I/O

Beautiful performance



Get the bandwidth, versatility, and efficiency you need to capture, monitor, and output high-res media. Avid® Artist™ I/O interfaces offer extensive format support, enabling you to respond quickly to changing demands and deliver content to a wider range of channels and devices. With three interfaces to choose from—Avid Artist | DNxIQ™, Avid Artist | DNxIV™, and Avid Artist | DNxIP™—you can plug into any professional production and work with HD, high-res, HDR, and surround sound content. It's the smartest way to simplify your workflow, so you can complete projects faster.

CHOOSE FROM THREE UNIQUE INTERFACES

While all Avid Artist I/O interfaces deliver exceptional performance and reliability, each benefits different workflows. Avid Artist | DNxIQ offers the most extensive connectivity, onboard DNxHR® encoding, and Universal Mastering for larger video post environments. Avid Artist | DNxIV offers quad SDI and, coming soon, 8-channel surround sound monitoring in a portable 4K solution for smaller video editing, post production, and news. And Avid Artist | DNxIP enables HD and 2K video over IP, ideal for news and post production.

GET CONNECTED

Avid Artist I/O offers a wide range of analog and digital I/O to plug into today's diverse media productions. Connect all of your gear—from 4K cameras, video decks, and UHD devices, to HDR and audio monitors, mics, and switchers. Each interface provides a different complement of connectivity, which may include SDI, optical, HDMI, IP, XLR, and more, to tie your studio together.

USE YOUR FAVORITE TOOLS

Avid Artist I/O is an easy fit for any production, working with a wide range of professional Avid and third-party video editing, audio, visual effects, and graphics software. This gives you the flexibility to capture, edit, monitor, output, and deliver high-quality content using the tools you know and love now—and the solutions you may want in the future.

RECORD VOICEOVERS EASILY

Need to overdub some dialog or narration? It's easy. Only Avid Artist I/O enables you to capture high-quality recordings through direct audio punch-ins to the Media Composer® timeline using the front-panel XLR microphone input. Each interface also provides 48V of phantom power, so you can use condenser mics without requiring a separate audio interface or power supply.

BOOST YOUR BANDWIDTH

Experience exceptional performance, highly accurate time sync, and ultra-low latency—even with bandwidth-intensive 4K workflows. All interfaces feature lightning-fast Thunderbolt 3 connectivity, providing transfer speeds up to 40 Gb/s to your Mac or Windows-based host computer (Avid Artist | DNxIQ also offers optional PCIe connectivity).

MONITOR SURROUND SOUND MIXES

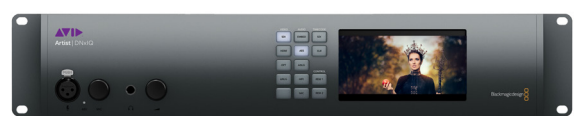
No need to connect a separate audio monitoring solution into your workflow. You can monitor 5.1 and 7.1 surround sound mixes using any of the interfaces. Avid Artist | DNxIQ offers 8 channels of audio through SDI and HDMI (embedded audio). And coming soon, Avid Artist | DNxIV and DNxIP will deliver 8 channels of audio through a DB25 audio connection (breakout cable sold separately).



AVID ARTIST | DNxIP



AVID ARTIST | DNxIV



AVID ARTIST | DNxIQ

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HARDWARE SPECIFICATIONS



	Avid Artist DNxIQ	Avid Artist DNxIV	Avid Artist DNxIP
Video formats	<p>SD—PAL (625, 50i, 576p), NTSC (525, 29.97i, 480p)</p> <p>HD—720p (50, 59.94, 60*), 1080i (50, 59.94, 60), 1080PsF (23.98, 24, 25, 29.97, 30), 1080p (23.98, 24, 25, 29.97, 30, 50, 59.94, 60)</p> <p>2K—23.98PsF, 24PsF, 25PsF, 23.98p, 24p, 25p</p> <p>Ultra HD—23.98p, 24p, 25p, 29.97p, 30p, 50p, 59.94p, 60p</p> <p>4K—23.98p, 24p, 25p (SDI only)</p>	<p>SD—PAL 25i, NTSC 30i</p> <p>HD—720p (50, 59.94, 60*), 1080i (50, 59.94, 60), 1080PsF (23.98, 24, 25, 29.97, 30), 1080p (23.98, 24, 25, 29.97, 30, 47.96*, 48*, 50, 59.94, 60)</p> <p>2K—23.976PsF, 24PsF, 25PsF, 29.97PsF, 30PsF, 23.98p, 24p, 25p, 29.97p, 30p, 47.96p*, 48p*, 50p, 59.94p, 60p</p> <p>Ultra HD—23.98p, 24p, 25p, 29.97p, 30p, 47.952p*, 48p*, 50p, 59.94p, 60p</p> <p>4K—23.98p, 24p, 25p, 29.97p, 30p, 47.952p*, 48p*, 50p, 59.94p, 60p</p>	<p>SD—PAL 25i, NTSC 30i</p> <p>HD—720p (50, 59.94, 60*), 1080i (50, 59.94, 60), 1080PsF (23.98, 24, 25, 29.97, 30), 1080p (23.98, 24, 25, 29.97, 30, 47.96*, 48*, 50, 59.94, 60)</p> <p>2K—23.976PsF, 24PsF, 25PsF, 29.97PsF, 30PsF, 23.98p, 24p, 25p, 29.97p, 30p, 47.96p*, 48p*, 50p, 59.94p, 60p</p>
Audio sample rate	24-bit, 48 kHz (television standard)	16-bit, 24-bit, 48 kHz (television standard)	16-bit, 24-bit, 48 kHz (television standard)
Color spaces	YUV 4:2:2, RGB 444*, REC 601, REC 709, BT 2020, P3; 12-bit (SDI) or 10-bit (HDMI); 1D and 3D LUT support	YUV 4:2:2, RGB 444*, REC 709, BT 2020, DCI-P3; 8-bit and 10-bit; 1D LUT support	YUV 4:2:2, RGB 444*, REC 709, BT 2020, DCI-P3; 8-bit and 10-bit; 1D LUT support

VIDEO AND AUDIO CONNECTIONS

Video I/O	<p>Two 12G-SDI and two 3G-SDI inputs:</p> <ul style="list-style-type: none"> Supports SD, HD, 2K, UHD, 4K Supports single, dual, and quad link inputs (4:2:2 / 4:4:4) 2D/3D switchable <p>SDI video loop:</p> <ul style="list-style-type: none"> Four reclocked SD/HD/2K/UHD/4K linked to corresponding inputs <p>Two 12G-SDI and two 6G-SDI outputs:</p> <ul style="list-style-type: none"> Supports SD, HD, 2K, UHD, 4K Supports single, dual and quad link outputs (4:2:2 / 4:4:4) 2D/3D switchable <p>SDI video repeated output:</p> <ul style="list-style-type: none"> Two 12G-SDI and two 3G-SDI outputs Supports SD, HD, 2K, UHD, 4K Supports single, dual and quad link outputs (4:2:2 / 4:4:4) 2D/3D switchable <p>Optical I/O</p> <ul style="list-style-type: none"> Two optical I/O supporting 3Gb/s and 6Gb/s; 12Gb/s coming soon (modules not included) <p>Analog video I/O</p> <ul style="list-style-type: none"> Component YUV via BNC connectors (SD—YCbCr; HD—YCbCr/RGB) Composite NTSC/PAL via BNC connectors (SD) 	<p>Four bidirectional SDI ports and one 3G-SDI monitor output:</p> <ul style="list-style-type: none"> 12G, 6G, 3G, 1.5G input and output 12G simultaneous input and output Dual 3G input Quad 3G input and output, software-controllable division/interleave 	<p>Two SFP+ cages for video over IP (modules sold separately)</p> <ul style="list-style-type: none"> SMPTE 2022-6 uncompressed HD-SDI over IP <ul style="list-style-type: none"> -6 and -7 up to HD, rasters up to 1080p/60 SMPTE 2110 uncompressed video and audio over IP coming in 2018
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	Avid Artist DNxIQ	Avid Artist DNxIV	Avid Artist DNxIP
HDMI I/O	HDMI 2.0	HDMI 2.0	HDMI 2.0
Audio I/O	<ul style="list-style-type: none"> Four channels of analog audio I/O via XLR Eight channels of SDI I/O audio embedded in SD 16 channels of SDI I/O audio embedded in HD, UHD, 2K, and 4K 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 Stereo audio input via RCA One front-panel mic input via XLR with 48V phantom power One stereo headphone output with volume control 	<ul style="list-style-type: none"> Eight channels of analog audio, which can be configured as four inputs and four outputs, eight inputs (coming soon) or eight outputs (coming soon) DB25: Ch 1-8 inputs (coming soon), Ch 1-8 outputs (coming soon), or Ch 1-4 input with Ch 5-8 output (audio breakout cable sold separately) Eight channels of HDMI I/O embedded in SD, HD, UHD, 2K, and 4K One front-panel XLR mic/line input with 48V phantom power and gain control One stereo headphone jack with volume control 	<ul style="list-style-type: none"> Eight channels of analog audio, which can be configured as four inputs and four outputs, eight inputs (coming soon), or eight outputs (coming soon) DB25: Ch 1-8 inputs (coming soon), Ch 1-8 outputs (coming soon), or Ch 1-4 input with Ch 5-8 output (audio breakout cable sold separately) Eight channels of HDMI I/O embedded in SD, HD, UHD, 2K, and 4K One front-panel XLR mic/line input with 48V phantom power and gain control One stereo headphone jack with volume control
HOST AND SYNC CONNECTIONS			
Computer	One Thunderbolt 3 port (cable sold separately), one PCI Express port (card/cable sold separately)	Two Thunderbolt 3 ports (cable sold separately)	Two Thunderbolt 3 ports (cable sold separately)
LTC / Reference I/O	Switchable LTC or video reference I/O on BNCs	Switchable LTC or video reference input on BNC, LTC output on BNC	Switchable LTC or video reference input on BNC (no LTC output)
Device control	Two RS-422 machine control ports	One RS-422 machine control port	n/a
HARDWARE SCALING/PROCESSING			
Onboard encoding	DNxHR encoding for capture workflows (requires Media Composer 8.4.5 or higher, or a software application that has enabled this capability)**	n/a	n/a
Down-scaling / conversion	UHD to 1080 HD (SDI output only), HD to SD	4K to 2K, UHD to HD, HD to SD	HD to SD
Up-scaling / conversion	SD to HD (input only)	SD to HD	SD to HD
Other conversion	Color space conversion*	Color space conversion*, hardware deinterlacing	Color space conversion*, hardware deinterlacing
Real-time keyer	Alpha channel over video or matte, or frame buffer over incoming video or matte	Alpha channel over video, matte, or frame buffer over incoming video or matte	Alpha channel over video, matte, or frame buffer over incoming video or matte
3D processing	Frame Compatible/Frame Packed	Frame Compatible/Frame Packed	Frame Compatible/Frame Packed
ADDITIONAL FEATURES			
Audio pass-through mixing	Monitor mix the audio being captured (8 channels)	Monitor mix the audio being captured (8 channels)	Monitor mix the audio being captured (8 channels)
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), HDMI	Genlock/Reference Clock (BBG or Tri-level), Internal Clock, SDI (SD and HD), HDMI	Genlock/Reference Clock (BBG or Tri-level), Internal Clock, SMPTE 2059-2
Ancillary data support	SDI VITC reader, RP188 Timecode I/O, NTSC (closed captioning), HD-SDI (closed captioning), pass through all (HD, 4K)	SDI VITC reader, RP188 Timecode I/O, NTSC (closed captioning), HD-SDI (closed captioning), pass through all (HD, 4K)	RP188 (output only), NTSC VITC closed captioning, HD-SDI closed captioning

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ADDITIONAL SPECIFICATIONS			
Power supply	Two built-in international AC power supplies with IEC C14 inlet (120–240V, 50–60 Hz)	One built-in international AC power supply (120–240V, 50–60 Hz)	One built-in international AC power supply (120–240V, 50–60 Hz)
Operating temperature	32°–104° F (5°–40° C)	32°–104° F (0°–40° C)	32°–104° F (0°–40° C)
Storage temperature	-4°–113° F (-20°–45° C)	-40°–140° F (-40°–60° C)	-40°–140° F (-40°–60° C)
Relative humidity	0–90% non-condensing	10–90% non-condensing	10–90% non-condensing
Dimensions (H x W x D)	2U rack (with and without rack ears) <ul style="list-style-type: none"> ▪ With: 3.5 x 19 x 9.5 inches (88.4 x 482 x 242 mm) ▪ Without: 3.5 x 16.5 x 9.5 inches (88.4 x 420 x 242 mm) 	1.7 x 8.7 x 8.1 inches (42 x 222 x 206 mm)	1.7 x 8.7 x 8.1 inches (42 x 222 x 206 mm)
Weight	8.6 lbs (3.9 kg)	3.4 lbs (1.5 kg)	3.4 lbs (1.5 kg)

* Currently not supported in Media Composer.

** Media Composer 8.4.5 and higher supports hardware encoding of Ultra HD and 4K DNxHR LB (Low-Bandwidth)

SOFTWARE COMPATIBILITY

Avid Artist | DNxIQ:

- Avid Media Composer
- Avid Media Composer | NewsCutter® Option
- Avid Media Composer | Symphony® Option
- Adobe After Effects CC
- Adobe Photoshop CC
- Adobe Premiere Pro CC
- Apple Final Cut Pro X
- Blackmagic Design DaVinci Resolve
- Blackmagic Design Fusion
- FilmLight Baselight

Avid Artist | DNxIV and DNxIP*:

- Avid Media Composer
- Avid Media Composer | NewsCutter Option
- Avid Media Composer | Symphony Option

* Additional software compatibility coming soon

SYSTEM REQUIREMENTS*

- Avid-qualified computer running one of the following operating systems:
 - Mac OS X 10.9, 10.10, 10.11, 10.12
 - Windows 7, Windows 8, Windows 10

* Other system requirements are dependent on the software you use with your Avid Artist I/O interface (please consult the software manufacturer for details)



Accelerate 4K and HD video production by bundling Avid Artist | DNxIQ with industry-standard Media Composer software.

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