



Avid Certified



HD EXPRESS

PCI express video interface for Avid® Media Composer®

- Certified by Avid — 100% compatible with Avid Media Composer, Symphony Nitris, and NewsCutter.
- HDMI video capture and monitoring for Mac & PC — Capture uncompressed-quality, digital HD from HDMI-equipped camcorders. Monitor pixel for pixel on today's latest plasma and LCD screens. RGB HDMI output supports HP DreamColor displays.
- Analog video I/O — Capture and monitor component HD or SD, plus composite and S-Video (NTSC or PAL).
- Tower or laptop operation — connects to an Avid-qualified Mac or PC tower via PCI Express for ultra-fast workstation use or laptop via ExpressCard connectivity for mobile operation.
- Comprehensive video capture & monitoring — supports all standard SD and HD video formats up to and including 1080p30 (720p, 1080i, 1080p & 1080PsF).
- Captures and plays uncompressed HD and SD — 10-bit 4:2:2 color depth and 1920x1080 resolution.
- Support for all Avid-supported codecs — capture full-raster 1080 or 720 XDCAM, DNxHD, DVCPRO HD, ProRes, or other Avid-supported codecs. Monitor any formats supported by Avid Media Access (AMA).
- Support for file-based workflows — lets you capture, edit and monitor in any codec supported natively in Media Composer or AMA, with no transcoding needed.
- Broadcast quality — 10-bit 4:2:2 signal path throughout.
- ASC CDL color grading — provides flexible, industry-standard color adjustment with separate settings for capture and playback.
- Comprehensive audio — Capture 8 channels of embedded HDMI audio. Play back stereo, 5.1 or even 7.1 surround sound directly to powered speakers. Connect speakers, a home theater amp or an audio mixer and monitor your mix in stereo or full 5.1 or 7.1 surround sound. Also provides S/PDIF digital I/O with sample rate conversion.
- Half rack space form factor with dedicated connectors — no cable swapping or gangly, inconvenient breakout cables. Includes rack mounting brackets.



HD EXPRESS specifications



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Video I/O

- 1 x HDMI in and out (4:2:2 10-bit, YCbCr or RGB, RGB output supports HP DreamColor displays)
- Support for DVI output with HDMI-to-DVI adapter (sold separately)
- 1 x HD/SD component in and out (10-bit, YPbPr or RGB) on RCAs
- 1 x composite in (10-bit) on RCA
- 1 x S-Video in (10-bit) on 4-pin mini-DIN
- 1 x composite in and out (10-bit CVBS) on shared RCA
- 1 x S-Video in and out (10-bit Y/C) on shared RCA



Video formats

- SD — 576i25 (PAL), 480i29.97 and 486i29.97 (NTSC)
- HD — 720p23.976, 720p24, 720p25, 720p29.97, 720p30, 720p50, 720p59.94, 720p60, 1080p23.976, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080PsF23.976, 1080PsF24, 1080PsF25, 1080PsF29.97, 1080PsF30, 1080i25, 1080i29.97, 1080i30



Audio I/O

- 12 channels of simultaneous audio input
- 16 channels of simultaneous audio output
- Supports all standard audio sample rates from 44.1 to 96kHz
- 8 x RCA analog outputs
- 2 x RCA analog input
- 2 x S/PDIF digital input and output with sample rate conversion
- 8 x HDMI embedded audio in and out
- Front panel headphone jack with dedicated volume control

To add SDI capture and monitoring, along with RS-422 device control and other advanced features, check out the rack-mountable HDX-SDI.

Color grading

- Apply industry standard color adjustments to your video signal during either capture or monitoring.
- The HD Express video console software provides separate color grading controls for capture and monitoring.
- In each case, ten parameters are provided and together determine the color transfer function, as defined by the American Society of Cinematographers Color Decision List (ASC CDL) specification (version 1.2).

Included software and compatibility

- Cross-platform operation on Avid-qualified Mac and Windows systems

Dimensions

- Chassis dimensions, excluding rack ears and front and back panel knobs and connectors: 19 x 7 x 1.75 inches (48.26 x 17.78 x 4.45 cm).
- Knobs and connectors extend up to 0.5 inch (1.27 cm) from front and back panels, adding 1 inch (2.54 cm) to depth. With rack ears attached, fits standard 19 inch (48.26 cm) rack at 1U high.



The HD Express and HDX-SDI connect to PCI-equipped towers and ExpressCard34-equipped laptops.



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