HD I/O

Premium, Customizable
Pro Tools HD Series Audio Interface

Features

- Pristine audio clarity and ultra low latency through state-of-the-art A/D and D/A conversion, premium analog circuitry, and meticulous attention to design
- Adapt the interface for your needs—choose from three configurations:
  - Get a balance of analog and digital I/O with HD I/O 8x8x8
  - Maximize your analog I/O with HD I/O 16x16 Analog
  - Go all digital with HD I/O 16x16 Digital
- Versatile digital I/O on all interfaces, with built-in sample rate conversion
- Expand or customize the I/O with analog or digital option cards
- Completely integrates with Pro Tools|HD for full input, output, and routing control
- Track hotter signals and smooth out sounds with Curv, a new built-in soft-knee limiter
- Keep things in sync with dedicated Word Clock and Loop Sync I/O
- Keep an eye on your levels easily through 32 4-segment metering LEDs
- Robust 2U rack-mountable chassis
- Connects to Pro Tools|HD through a DigiLink™ Mini connection (cable and adaptor included)

Get the absolute highest audio quality and unprecedented I/O flexibility with HD I/O, a high-performance Pro Tools® HD Series audio interface that's designed to completely integrate with Avid® Pro Tools|HD systems. While its sleek look resembles prior generation interfaces, HD I/O has been completely redesigned on the inside with high-quality electronics, giving you pristine A/D and D/A conversion, low latency, and maximum flexibility to integrate with a variety analog and digital gear.

Hear What You've Been Missing

A sonic improvement over its audio interface predecessors, HD I/O features premium A/D and D/A conversion, so you can achieve higher audio fidelity, extensive dynamic range, super-low jitter, and the absolute lowest possible latency in your sessions. With certain configurations, you also get built-in sample rate conversion and a soft clip feature for worry-free performance. And using Curv, a new built-in soft-knee limiter that catches even the fastest transients, you can track hotter signals and smooth out inconsistent levels from incoming sources.

The Connections You Need—Now and Later

HD I/O comes in three configurations, so you can choose the interface that best suits your connection needs. What's more, you can expand your analog or digital I/O anytime by simply installing an HD I/O option card into any empty bay (HD I/O 16x16 Analog cannot be expanded, as all four bays are occupied).

HD I/O 8x8x8
The perfect choice when you need a balance of analog and digital I/O for your music or post-production projects, with the option to expand your I/O.

- High-quality analog I/O:
  - 8 analog inputs (using DB25)
  - 8 analog outputs (using DB25)
- Versatile digital I/O:
  - 8 channels of AES/EBU I/O (supports 192 kHz single-wire and dual-wire)
  - 8 channels of TDIF I/O
  - 8 channels of ADAT I/O (supports S/MUX II and IV)
- Additional digital I/O:
  - 2 channels of AES/EBU I/O (supports 192 kHz single-wire)
  - 2 channels of S/PDIF I/O
  - 8 channels of ADAT I/O (supports S/MUX II and IV)
- One empty bay for I/O expansion

HD I/O 16x16 Analog
The ideal choice for music productions— get the maximum complement of analog inputs and outputs (can be customized by replacing a card, but not expanded).

- High-quality analog I/O:
  - 16 analog inputs (using DB25)
  - 16 analog outputs (using DB25)
- Additional digital I/O:
  - 2 channels of AES/EBU I/O (supports 192 kHz single-wire)
  - 2 channels of S/PDIF I/O
  - 8 channels of ADAT I/O (supports S/MUX II and IV)

HD I/O 16x16 Digital
The ultimate choice for post-production studios, and ideal if you need to interface with a digital mixer, dubber, or other digital infrastructure, and want the option to expand the I/O.

- Versatile digital I/O:
  - 16 channels of AES/EBU I/O (supports 192 kHz single-wire and dual-wire)
  - 16 channels of TDIF I/O
  - 16 channels of ADAT I/O (supports S/MUX II and IV)
- Additional digital I/O:
  - 2 channels of AES/EBU I/O (supports 192 kHz single-wire)
  - 2 channels of S/PDIF I/O
  - 8 channels of ADAT I/O (supports S/MUX II and IV)
- Two empty bays for I/O expansion

HD I/O—Premium, Customizable Pro Tools HD Series Interface

The Ultimate in Interface Flexibility

As your needs grow or change, you can easily add more analog inputs, analog outputs, or digital I/O by installing an option card.

- HD I/O AD Option: Adds 8 high-fidelity analog inputs (using DB25)
- HD I/O DA Option: Adds 8 high-fidelity analog outputs (using DB25)
- HD I/O Digital Option: Adds 8 channels each of AES/EBU (supports 192 kHz single-wire and dual-wire), TDIF, and ADAT (supports S/MUX II and IV) I/O

Work with Pro Tools and More

HD I/O and all other Pro Tools HD Series interfaces completely integrate with Pro Tools|HD, so you get maximum performance, dependability, and control of your inputs, outputs, and routing right from your Pro Tools software interface. You'll also get higher production quality and greater workflow flexibility than with previous Pro Tools interfaces. And if you want to use your interface and Pro Tools|HD hardware with other DAW software, you can do that too, as all Pro Tools|HD systems support Core Audio and ASIO drivers.

HD I/O Specifications

	HD I/O 16x16 Analog	HD I/O 8x8x8	HD I/O 16x16 Digital
Analog Inputs	16	8	0
Analog Outputs	16	8	0
AES/EBU I/O	2	8 + 2	16 + 2
AES Single-Wire (192 kHz)	yes	yes	yes
S/PDIF I/O	1 In + 1 Out (coax or optical)	1 In + 1 Out (coax or optical)	1 In + 1 Out (coax or optical)
ADAT I/O	8	8 + 8	16 + 8
S/MUX	S/MUX II and IV	S/MUX II and IV	S/MUX II and IV
SRC	n/a	8 channels (digital card)	16 channels (digital cards)
Word Clock I/O	1 In + 1 Out	1 In + 1 Out	1 In + 1 Out
Loop Sync I/O	1 In + 1 Out	1 In + 1 Out	1 In + 1 Out
Digital Interface	DigiLink Mini	DigiLink Mini	DigiLink Mini
Dynamic Range* ADC	122 dB	122 dB	n/a
Dynamic Range* DAC	125 dB	125 dB	n/a
THD+N ADC	-114 dB (0.0002%)	-114 dB (0.0002%)	n/a
THD+N DAC	-110 dB (0.00032%)	-110 dB (0.00032%)	n/a
Frequency Response ADC	20 Hz – 20 kHz (+/-.03 dB)	20 Hz – 20 kHz (+/-.03 dB)	n/a
Frequency Response DAC	20 Hz – 20 kHz (+/-.15 dB)	20 Hz – 20 kHz (+/-.15 dB)	n/a
Expansion	None (card swaps only)	1 empty bay	2 empty bays
Curv	yes	yes	n/a
Soft Clip	yes	yes	n/a
Cal Trims	yes	yes	n/a
Metering	32 4-segment LEDs	32 4-segment LEDs	32 4-segment LEDs
Internal Fan	yes	yes	yes
Chassis	2U rack-mountable	2U rack-mountable	2U rack-mountable

For more information, visit www.avid.com/hdio

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