Pro Tools Family:

Pro Tools Software:

http://www.avid.com/US/products/pro-tools-software

Pro Tools 11: The New Standard for Audio Production

The most powerful digital audio workstation just got more powerful. Pro Tools 11 redefines professional music and audio production for today's workflows. From all-new audio and video engines and turbocharged 64-bit performance, to expanded metering and new HD video workflows, Pro Tools 11 enables you to take on the most demanding sessions and maximize your creativity—without holding anything back.

http://www.avid.com/US/products/pro-tools-software#Features

Break the sound barrier with the all-new Avid Audio Engine

With the fully optimized Avid Audio Engine, you get multiple times the processing power of Pro Tools 10 on the same hardware configurations. So go ahead—pile on epic numbers of virtual instruments and effects to create richer sounding, more complex mixes and experience performance like never before with the most powerful audio workstation available.

Turbocharge sessions with 64-bit performance

With much more accessible RAM to boost performance, you can creatively take your music and audio production to a whole new level. Handle bigger mixes with thousands of clips. Take advantage of larger VI sampler sizes to attain more realistic-sounding instrument sounds.

And enjoy more system headroom to push things even further, without straining your system.

Speed up delivery with offline bounce

Wait no longer... With faster-than-real-time offline bounce, you can speed up your final mix or stem deliveries—at up to 150x faster—and get the high-quality results you'd expect only from Pro Tools, thanks to time-stamped automation. If you mix and deliver radio programs or other long-format shows, this feature alone will save you hours of time—daily.

Get ultra-low latency with a dedicated input buffer

With dedicated low-latency input and playback buffers, you can monitor record inputs on native systems with ultra-low latency—without sacrificing plug-in performance. Even with large, plug-in-heavy sessions, you get the responsiveness you need to record your best performance.

Mix with confidence using extended metering (Pro Tools HD 11 only)

Forget having to invest in additional plug-ins to get K-system, VU, and other professional metering standards. You now have 17 metering options built right into the interface, enabling you to optimize your mix while adhering to regional broadcast audio regulations. What's more, you also get gain reduction metering on every channel to gauge dynamics.

Play and edit HD video with the new Avid Video Engine

With the built-in Avid Video Engine—the same core engine as in Media Composer—you can add, edit, and play a variety of HD video formats (such as QuickTime, XDCAM, and more) and Avid DNxHD sequences directly in the Pro Tools timeline—without transcoding. Plus, you can

monitor the picture playback using video interfaces from Avid, AJA, and Blackmagic Design.

And more…

- Accelerate and simplify audio file searches with the optimized Workspace Browser
- Automate tracks while you record them (ideal for live sound and Dolby ATMOS workflows)
- Maximize plug-in counts with dynamic host processing, which reallocates resources as needed
- Monitor plug-in sends (PT and PTHD) and gain reduction (PTHD only) through new mini meters on every channel
- Get more accurate mixing and processing with time-stamped plug-in automation
- Control multiple Pro Tools|HD systems from one with Satellite Link, now included (PTHD only)
- Work faster and with more visual feedback with new key command workflows and Mix window enhancements
- See your session in all of its beauty with full Apple Retina display support

Record and Compose

Get top-quality sound and performance with Avid hardware

Whether you're tracking vocals, guitars, or an orchestra, you'll get the best possible sound and optimized performance when you pair Pro Tools with an Avid audio interface. Record high-resolution audio—up to 32-bit/192 kHz—and experience exceptionally low latency to capture your best performances easily.

Drive faster with optimized performance

With the enhanced disk handler, you'll experience great recording and playback responsiveness. Keep your creativity flowing—even when working on a laptop with an external drive or a network-attached storage device.

Work the way you want

With Pro Tools, you have the flexibility to record, edit, and mix music and sound for picture your way. Use multiple audio formats and bit depths in the same session. Pair the software with your favorite Avid or third-party audio interface to record and monitor vocal and instrument performances. Or record and create with just your computer** and the software alone for ultimate portability.

Loop and punch your way to perfection

Nobody's perfect, but with Pro Tools you can create a seamless performance from multiple takes. Let your spontaneity shine with Loop recording and comp together your best takes. Or use QuickPunch to quickly replace any questionable section with a better performance.

No instrument? No problem.

Easily create parts for practically any musical instrument using great-sounding virtual instruments, a MIDI keyboard/controller or your mouse, and the built-in Pro Tools MIDI Editor. Get started fast with the included virtual instruments and audio loops, and expand your arsenal with AAX [virtual instruments from Avid and third-party audio designers.](#)

Compose with full MIDI and notation tools

Take your songwriting from sketchpad to final production. Create and edit virtual instrument and MIDI performances with the MIDI Editor. Or compose music using notation tools in the built-in Sibelius Score Editor.

You can even export sessions as Sibelius (.sib) files for further finessing in [Sibelius](#).

Work and collaborate on projects from other apps

Collaboration has never been easier. With Pro Tools, you can exchange sessions with any Pro Tools user or studio. Or work on projects created in other audio and video software—including Media Composer, Logic, Cubase, and other third-party apps—right in Pro Tools.

Edit

Stretch your creativity with Elastic Time and Pitch

Freely experiment without the time or effort investment. With Elastic Time, you can change the tempo or timing of any clip or an entire composition—on the fly. And with Elastic Pitch, you can fix wrong notes, create harmonies, and transpose clips—in real time—without altering the tempo.

Edit with precision

Shape and fine-tune your music and audio with professional, sample-accurate editing tools. Create a flawless performance by comping together tracks. Speed up editing and mixing [Clip Gain](#) with the Smart Tool. And smooth transitions with crossfades. Everything you need to perfect your tracks is available right from within a single Edit window.

Snoop out grooves with multitrack Beat Detective

With the versatile Beat Detective tool, you can quickly fix timing issues across multiple tracks or change up the feel of a beat to get a different groove. You can even use it to keep your rhythm section "in the pocket" by extracting the groove from a drumbeat and applying it to the bass part.

Create and cut sound to picture

With Pro Tools, you can create, edit, and mix audio to picture using the built-in Timecode Ruler and video track. Use the included plug-ins to clean up sound. Create sound effects that define (or defy) reality. [Work easily with AudioSuite-rendered clips.](#) And record and edit voiceovers, Foley, and ADR with perfect frame accuracy. You can even share audio mixes with Media Composer editors through AAF.

Mix

Get the sound you want

Polish mixes with over 70 included effects, sound-processing and utility plug-ins. From high-quality reverbs, EQs, and compressors, to guitar amp emulators, surround sound fold-down, and channel strip dynamics, you have everything you need to create professional mixes. Want more? Browse the in-app Avid Marketplace to find the AAX plug-ins you need.

Grab control of your mix

You can use a mouse to make changes one… at… a… time, or mix faster and easier using a hardware control surface. Get hands-on Pro Tools control with a choice of [Avid control surfaces](#) and consoles and third-party boards.

Collaborate, store, and share mixes

Whether you've got a work in progress or a finished piece, Pro Tools makes it easy to share. With Gobbler integration, you can send full sessions and mixes to other collaborators fast, and securely back up and sync sessions in the cloud—Gobbler automatically backs up as you go. With direct SoundCloud support, you can share files privately with other collaborators, or share finished projects with the world. And bounce mixes to your iTunes library to share with others on your network.

Achieve the best mixes possible—automatically

Get great sounding, phase-accurate mixes with Automatic Delay Compensation— with 4x the samples (16,383) to handle the largest mixes—no matter how many plug-ins you use. Plus, you can automate the settings of every element in the Pro Tools environment to add life to tracks and achieve the best mix possible.

Plug into legendary sound

Add life to your mix. With the included [Avid Channel Strip plug-in](#), you get exact replications of the renowned EQ and compression algorithms of the Avid System 5—one of the most sought-after digital audio consoles used to create some of the greatest mixes ever produced.

http://www.avid.com/US/products/pro-tools-software#Specifications

System requirements

Windows

- **Computer:** [Avid-qualified Windows-based computer](#)
- **System Software:** (64-bit) Windows 7 or 8 Home Premium, Professional, or Ultimate edition with Windows 7 Service Pack 1. Pro Tools HD 11 does not support Windows 8
- **RAM:** 4GB of RAM (8GB or more recommended); Pro Tools HD— 8GB of RAM (16GB or more recommended)
- Minimum 15 GB free hard disk space for installation
- USB port for iLok authorization

Mac OS X

- **Computer:** [Avid-qualified Apple computer](#)
- **System Software:** (64-bit) OS X Mountain Lion 10.8.3
- **RAM:** Pro Tools—4 GB of RAM (8 GB recommended); Pro Tools HD—8 GB of RAM (16 GB recommended)
- Minimum 15 GB free hard disk space for installation
- USB port for iLok authorization

Additional system requirements

- [Approved Audio Interfaces and Peripherals](#)
- [Approved Video Peripherals](#)
- [Approved Third Party Audio Interfaces](#)

From the Knowledge Base

- [Pro Tools 11 system requirements](#)
- [Pro Tools HD 11 system requirements](#)
- [Pro Tools 11 FAQ](#)
- [Compatibility & Upgrade Information for Pro Tools on Mac](#)
- [Compatibility & Upgrade Information for Pro Tools on Windows](#)
- [Pro Tools Update information](#)

Specifications

Supported tracks

Pro Tools 11

- 96/48/24 maximum simultaneous audio tracks @ 48/96/192 kHz
- Up to 32 Inputs and 32 maximum simultaneous audio record tracks
- 128 Instrument Tracks
- 512 MIDI tracks
- 128 auxiliary tracks
- 256 busses
- 1 video track

Pro Tools HD 11

- 768/384/192* maximum simultaneous audio tracks @ 48/96/192 kHz
- Up to 192 Inputs and a maximum of 256 simultaneous audio record tracks
- 256 Instrument Tracks

- 512 MIDI tracks
- 512 auxiliary tracks
- 256 busses
- 64 video tracks

General

- Maximum sample rate supported (hardware dependent): 32-bit, 192 kHz
- Maximum I/O (hardware dependent): 32
- Supported plug-in formats: AAX Native 64
- Bundled software: Over 75 virtual instruments, effects, sound processing, and utility plug-ins; 8 GB sound library
- ASIO, Core Audio, and EUCON support
- Maximum sample rate supported (hardware dependent): 32-bit, 192 kHz
- Maximum I/O (hardware dependent): 256
- Supported plug-in formats: AAX DSP 64 (Pro Tools|HDX only), AAX Native 64
- Bundled software: Over 75 virtual instruments, effects, sound processing, and utility plug-ins; 8 GB sound library
- ASIO, Core Audio, and EUCON support

Bundled AAX plug-ins

Create music and polish sounds with a huge collection of over 75 AAX virtual instruments, effects, sound processing, and utility plug-ins, plus a massive 8 GB library of high-quality audio loops.

Virtual Instruments and Audio Content

- Big Fish Audio loop library (8 GB)
- AIR Boom drum machine and sequencer

- AIR DB-33 tonewheel organ emulator with rotating speaker simulation
- AIR Mini Grand acoustic grand piano
- AIR Structure Free sample player (based on AIR Structure)
- AIR Vacuum monophonic vacuum tube synthesizer
- AIR Xpand!2 multitimbral synth and sample workstation

*For more information on AIR plugins [click here](#)

Effects, Sound-Processing, and Utility Plug-ins

- [1-Band EQ III](#)
- [7-Band EQ III](#)
- AIR Chorus
- AIR Distortion
- AIR Dynamic Delay
- AIR Enhancer
- AIR Ensemble
- AIR Filter Gate
- AIR Flanger
- AIR Frequency Shifter
- AIR FuzzWah
- AIR KillEQ
- AIR Lo-Fi
- AIR MultiChorus
- AIR Multi-Delay
- AIR Nonlinear Reverb
- AIR Phaser
- AIR Reverb
- AIR Spring Reverb
- AIR StereoWidth
- AIR Talkbox
- AIR Vintage Filter

- [AutoPan](#) panning effects
- [BF76 Compressor](#) 1176 emulator
- [Channel Strip](#) (based on the [System 5](#)console)
- Click II
- [Compressor/Limiter](#)
- [D-Verb](#) reverb and ambience
- DC Offset Removal
- [De-Esser](#)
- DigiReWire
- Dither
- Down Mixer (5.1 to stereo fold down)
- Duplicate
- Eleven Free (guitar amp emulator based on [Eleven](#))
- [Expander/Gate](#)
- Gain
- [InTune](#) digital tuner
- Invert
- [Lo-Fi](#) retro processing
- [MasterMeter](#) oversampling meter
- [Maxim](#) sound maximizer
- Mod Delay III

What's included

Pro Tools 11 software (full boxed version)

- Pro Tools 11 software DVD-ROM installer
- iLok 2 key (for software authorization)

- Driver installer disk
- Registration information card

Pro Tools/Pro Tools HD upgrade/crossgrade

- Pro Tools 11 or Pro Tools HD 11 with Bundled AAX plug-ins installer activation (requires download)

http://www.avid.com/US/products/pro-tools-software#Hardware-Options-

Audio I/O options

Get the best sound quality and performance when you pair Pro Tools with an Avid audio interface, which tightly integrates the hardware and software with your Mac or PC.

Fast Track Solo

Take your creativity to go with a single mic pre interface (includes Pro Tools Express)
View Fast Track Solo

Fast Track Duo

Take your creativity to go with a dual mic pre interface (includes Pro Tools Express)
View Fast Track Duo

Pro Tools|HD Native

Create with the fastest, best-sounding host-based DAW
View Pro Tools|HD Native

Mbox

Get professional sound with a portable 4x4 interface
[View Mbox](#)

Pro Tools|HDX

Create with the fastest, best sounding, most powerful DAW
[View Pro Tools|HDX](#)

Mbox Pro

Get professional sound with a desktop 8x8 interface
[View Mbox Pro](#)

Eleven Rack

Get and record the guitar tone you've always dreamed of
[View Eleven Rack](#)

Third-party audio interfaces

With Pro Tools, you get the flexibility of using the software with practically any audio interface you already have or want. For ultimate quality and performance, choose one of the bundled Pro Tools hardware/software solutions above. Or pair Pro Tools software with any other audio interface that supports any of the following drivers:

http://www.avid.com/US/products/pro-tools-software#ProToolsHD11

Pro Tools HD 11

Get all of the same benefits of Pro Tools 11 software along with these additional features and workflows. (Please note that Pro Tools HD software is available only as part of a Pro Tools|HD family system purchase or software upgrade.)

[Learn more about the Pro Tools|HD Family](#)
[Important information about Pro Tools|HD Accel and legacy ("blue") interfaces](#)

Go bigger with more tracks

Create way bigger mixes using Pro Tools HD software than you can with Pro Tools. With a 3-card Pro Tools|HDX system, you can work with up to 768 voiceable audio tracks. Or get up to 256 voiceable audio tracks on a Pro Tools|HD Native system or with just Pro Tools HD software on its own.

Get top-quality sound and performance with Avid hardware

Because Pro Tools HD is designed and optimized to be part of an integrated hardware/software solution, you can capture audio in pristine clarity with near-zero latency. Even when mixing large, complex projects, you'll experience uncompromised performance—on a Pro Tools|HDX DSP-powered system or on the host with Pro Tools|HD Native.

Experience maximum performance

With the extended disk cache, which loads entire sessions into RAM, you'll experience smooth performance and highly responsive recording and playback—no matter how monster-sized the session.

Record and edit with advanced audio tools

Record solo tracks in PFL (pre-fader listen) or AFL (after-fader listen) mode. Work more efficiently when punching performances with TrackPunch and DestructivePunch. Enhance and speed up editing tasks with Continuous Scrolling, Scrub Trim tool, Replace Clip command, Time Compression and Expansion Edit to Timeline Selection command, field recorder workflows, and more.

Work more easily with video

Edit and mix sound for larger, more complex video productions, and display up to 64 video tracks in the timeline. Expand your post capabilities with advanced video features, including multiple video

playlists and basic video editing tools. And share audio mixes with Media Composer editors (and vice-versa) through AAF.

Mix in stereo or surround

With Pro Tools HD, you can mix in everything from mono up to 7.1 surround sound. Build up your sonic landscape and add movement to your mix with the built-in surround panner. Work with groups of tracks faster and easier with VCA Group mixing. And with advanced automation tools, you can tackle even the largest, most complex mixes with ease.

Get more control

With Pro Tools HD, you've got unprecedented control at your fingertips. Handle the largest audio post mixes with the built-in Satellite Link, which enables you to connect up to 12 Pro Tools HD-based systems and control them from one. And get the highest level of hands-on control by adding an ICON surface to your setup.
http://www.avid.com/US/products/Mbox/Specifications#IncludedSoftware

Pro Tools Express

Compose, record, edit, and mix at the speed of your creativity—and get the professional tools you need to sound your very best. Pro Tools Express, included with Mbox interfaces, offers many of the same industry-standard tools of its big brother, Pro Tools, to help you turn the song in your head into reality, with professional results.

Key features

- Create music and sound for picture using many of the same industry-standard tools used by top producers, engineers, and artists
- Take your projects to the next level—and to studios around the world—with session file compatibility across all Pro Tools systems

- Sound your best when using professional-grade Mbox interfaces
- Record and mix up to 16 stereo audio tracks at 96 kHz (Mbox) resolution
- Compose music easily with virtual instruments, MIDI editing, and Sibelius notation tools
- Create pro-quality mixes with a collection of high-quality plug-ins and Automatic Delay Compensation
- Get a gigantic leap in sound and speed—and save over 25%—when you upgrade to Pro Tools 11

Bundled plug-ins

Virtual Instruments

- Boom drum machine and sequencer
- Structure Free sample player (based on Structure)
- Xpand!2 multitimbral synth and sample workstation

Sound processing, effects, and utility

- 1-Band EQ III
- 4-Band EQ III
- 7-Band EQ III
- AIR Chorus
- AIR Distortion
- AIR Dynamic Delay
- AIR Flanger
- AIR Frequency Shifter
- AIR Lo-Fi
- AIR Multi-Delay
- AIR Phaser
- AIR Vintage Filter
- BF76 Compressor 1176 emulator

- Click
- [Compressor/Limiter](#)
- [D-Verb](#) reverb and ambience
- DC Offset Removal
- [De-Esser](#)
- DigiReWire
- Dither
- Duplicate
- Eleven Free (guitar amp emulator based on [Eleven](#))
- [Expander/Gate](#)
- Invert
- Normalize
- Reverse
- Time Compression Expansion
- [TL InTune](#) digital tuner

What's in the Box

Mbox

- Mbox interface
- Pro Tools Express software activation card (download required)
- Drivers installation disc
- iLok 2 USB key
- USB cable
- Mbox quick setup guide
- Registration card

Pro Tools|HD Family

Pro Tools|HDX

What is Pro Tools|HDX?

Pro Tools|HD—Pro Tools|HDX is the new generation of Pro Tools|HD, providing more power, higher audio quality, and easier ways to record, edit, and mix the most demanding productions. Get more tracks, more headroom, and up to 5x more dedicated DSP power to tackle even the most massive music and post-production projects with the confidence that comes with guaranteed performance.

Get up to 5x more power than Pro Tools|HD Accel

View all features

Easily installs into your Mac or PC

View all system requirements

Find out which Pro Tools|HD system is right for you

Compare systems

Get Pro Tools|HDX

Pro Tools|HDX includes one HDX PCIe card, your choice of Pro Tools HD Series interface, and Pro Tools HD software. Purchase a new Pro Tools|HDX system or save big when you upgrade from any Pro Tools|HD or Pro Tools|HD Native system.

Mix bigger, better projects

With Pro Tools|HDX, you get up to 5x more power per card than Pro Tools|HD Accel, so you can focus on your mix—not your mixer—and do much more with less.

Get more headroom—less headaches

Pro Tools|HDX uses floating-point calculations for plug-in processing and mixing, enabling you to achieve the best sound quality possible, with the least effort.

The fastest workflows—yours

Pro Tools|HDX tightly integrates with Pro Tools HD software and your Mac or PC, giving you optimized performance from creation to completion.

It's all about the sound

There's a reason why more professionals trust the sound of Pro Tools than with any other DAW. Now you can get even higher fidelity audio with Pro Tools|HDX.

The versatility you need—now and in the future

As your needs or business grows, you can easily scale Pro Tools|HDX to handle whatever comes your way, and take advantage of unique features and workflows.

Software features

Attain the highest sound quality and performance

Because Pro Tools HD is designed and optimized to be part of an integrated hardware/software solution, you can capture audio in pristine clarity with near-zero latency. Even when mixing large, complex projects, you'll experience uncompromised performance—on a Pro Tools|HDX DSPpowered system or on the host with Pro Tools|HD Native.

Record and edit with advanced audio tools

Solo tracks in PFL (pre-fader listen) or AFL (after-fader listen) mode. Work more efficiently when punching performances with TrackPunch and DestructivePunch. And enhance and speed up editing tasks with Continuous Scrolling, Scrub Trim tool, Replace Clip command, Time Compression and Expansion Edit to Timeline Selection command, field recorder workflows, and more.

Work more easily with video

Edit and mix sound for larger, more complex video productions, and display up to 64 video tracks in the timeline. Expand your post capabilities with advanced video features, including multiple video playlists and basic video editing tools. Share audio mixes with Media Composer editors (and vice versa) through AAF. Or integrate directly into the Media Composer workflow with the [Video Satellite](#) option, eliminating the need to render effects, transcode video, or copy files.

Mix in stereo or surround

With Pro Tools HD, you can mix in everything from mono up to 7.1 surround sound. Build up your sonic landscape and add movement to your mix with the built-in surround panner. Work with groups of tracks faster and easier with VCA Group mixing. And with advanced automation tools, you can tackle even the largest, most complex mixes with ease.

System requirements

http://www.avid.com/US/products/Pro-Tools-HDX#TechSpecs

Mac OS X

- **Computer:** Apple Mac Pro (Nehalem/Westmere models only)
- Mac Mini with Magma Express Box 3 (EB3T)
- **OS:** (64-bit) OS X Mountain Lion (10.8.3)
- **Memory:** 8 GB of RAM (16 GB or more recommended)
- Minimum 15 GB free hard disk space for installation

- USB port for iLok authorization (iLok included)

Windows

- **Computer:** HP Z800 series computer
- **OS:** (64-bit) Windows 8 Professional, Windows 8, or Windows 7 Home Premium, Professional, or Ultimate with Windows 7 Service Pack 1
- **Memory:** 8 GB of RAM (16 GB or more recommended)
- Minimum 15 GB free hard disk space for installation
- USB port for iLok authorization (iLok 2 key included)

Additional system requirements

- [Approved audio interfaces and peripherals](#)
- Audio drive requirements: One or more hard disk drives dedicated for audio record and playback ([details](#))
- Graphics card: Dedicated graphics card highly recommended ([details](#))
- [Approved video peripherals](#)
- [Approved third party audio interfaces](#)

Included software

For large-scale projects that demand the utmost in sound quality and performance, [Pro Tools HD software](#) enables you to compose, record, edit, and mix big productions quickly and easily. The software comes with Pro Tools|HDX and Pro Tools|HD Native systems. What's more, you get all of the same benefits of Pro Tools software along with these additional features and workflows.

Bundled plug-ins

Create music and polish sounds with a huge collection of over 75 virtual instruments, effects, sound processing, and utility plug-ins, plus a massive 8 GB library of high-quality audio loops.

Virtual instruments and audio content

- Big Fish Audio loop library (8 GB)
- AIR Boom drum machine and sequencer
- AIR DB-33 tonewheel organ emulator with rotating speaker simulation
- AIR Mini Grand acoustic grand piano
- AIR Structure Free sample player (based on AIR Structure)
- AIR Vacuum monophonic vacuum tube synthesizer
- AIR Xpand!2 multitimbral synth and sample workstation

*For more information on AIR plugins [click here](#)

Effects, sound-processing, and utility plug-ins

- [1-Band EQ III](#)
- [7-Band EQ III](#)
- AIR Chorus
- AIR Distortion
- AIR Dynamic Delay
- AIR Enhancer
- AIR Ensemble
- AIR Filter Gate
- AIR Flanger
- AIR Frequency Shifter
- AIR FuzzWah
- AIR KillEQ
- AIR Lo-Fi
- AIR MultiChorus
- AIR Multi-Delay

- AIR Nonlinear Reverb
- AIR Phaser
- AIR Reverb
- AIR Spring Reverb
- AIR StereoWidth
- AIR Talkbox
- AIR Vintage Filter
- [AutoPan](#) panning effects
- [BF76 Compressor](#) 1176 emulator
- [Channel Strip](#)(based on the [System 5](#)console)
- Click II
- [Compressor/Limiter](#)
- [D-Verb](#) reverb and ambience
- DC Offset Removal
- [De-Esser](#)
- DigiReWire
- Dither
- Down Mixer (5.1 to stereo fold down)
- Duplicate
- Eleven Free (guitar amp emulator based on [Eleven](#))
- [Expander/Gate](#)
- Gain
- [InTune](#) digital tuner
- Invert
- [Lo-Fi](#) retro processing
- [MasterMeter](#) oversampling meter
- [Maxim](#) sound maximizer
- Mod Delay III
- Normalize
- POWr Dither

- [Recti-Fi](#) harmonic synthesis
- Reverse
- [Revibe](#)-Advanced room modelling reverb
- [SansAmp PSA-1](#) tube amp simulator
- [Sci-Fi](#) ring modulator
- Signal Generator
- Time Adjuster
- [Time Shift](#) time/pitch stretching
- Trim
- [Vari-Fi](#) speed shifter

Important note about AAX plug-ins

Pro Tools|HDX uses the new AAX plug-in format, which provides better workflow and sound parity between Pro Tools DSP-accelerated and nativebased systems ([watch the video](#)). Pro Tools|HDX comes and works with two flavors of AAX plug-ins—AAX DSP, which uses the HDX card for processing, and AAX Native, which uses power from your host computer's processors—as well as with RTAS and AudioSuite (TDM is not supported). For more information about AAX and third-party plug-in compatibility, see the [AAX Plug-in Compatibility](#) page.

What's In the box

- Pro Tools|HDX PCIe card
- Pro Tools HD activation card (all software requires download)—covers:
    - Pro Tools HD software
    - Bundled virtual instruments, sound processing, and utility plug-ins
    - Big Fish Audio sound loops library (8 GB)
- User guides
- iLok USB Smart Key (for software authorization)

- Registration card
- 12-foot DigiLink Mini cable for Pro Tools HD Series interface connection
- Your choice of [HD Series interface](http://www.avid.com/US/products/Pro-Tools-HDX#Hardware)

Supported interfaces

Get pristine clarity, connection versatility, and the lowest latency.

HD I/O

[View HD I/O](#)

HD OMNI

[View HD](#)

HD MADI

[View HD MADI](#)

PRE

[View PRE](#)

SYNC HD

[View SYNC HD](#)

Artist Series controllers

Take hands-on control of Pro Tools and many other video and audio apps, and connect any combination of these surfaces together to form a seamless, slim-line surface for your workflow needs.

Artist Control

Accelerate audio/video editing and mixing with a 4-fader touchscreen control surface

[View Artist Control](#)

Artist Mix

Accelerate audio mixing in audio/ video software with an 8-fader control surface

[View Artist Mix](#)

Artist Transport

Edit and navigate audio and video projects fast, with a one-handed control surface

[View Artist Transport](#)

Consoles and control surfaces

Get deep hands-on control and great flexibility with a variety of mid- to large-format consoles and control surfaces for more demanding music and post production.

Pro Tools-focused control surfaces

Take deep hands-on control of award-winning Pro Tools systems.

[View C|24](#)
[View ICON D-Command ES](#)
[View ICON D-Control ES](#)

EUCON-based control surfaces

Take deep control of EUCON-enabled DAWs, including Pro Tools, Nuendo Logic Pro, and more.

[View MC Pro](#)
[View System 5-MC](#)

DSP-based hybrid consoles

Get high-performance standalone DSP power and versatile EUCON DAW control.

[View S5 Fusion](#)
[View System 5](#)

Third-party

Control a range of Pro Tools functions with any analog or digital console or control surface that supports the HUI protocol

Extended Avid workflows

Video/media integration

Interplay

[View Interplay](#)

Video Satellite

[View Video Satellite](#)

ISIS

[View ISIS](#)

Video Satellite LE

[Video Satellite LE](#)

Remote Control

MachineControl

[View MachineControl](#)

Satellite Link

[View Satellite Link](#)

Pro Tools|HD Native

What is Pro Tools|HD Native?

ProTools|HD Native is a new generation of Pro Tools|HD system that enables you to compose, record, edit, and mix music and/or sound for picture—with great speed and ease. Consisting of an HD Native Thunderbolt interface or PCIe core card, Pro Tools HD software, and Pro Tools HD Series interface, Pro Tools|HD Native harnesses the power of your Mac or PC to deliver pristine sound, incredible performance, and the lowest latency of any host-based DAW.

Core system

A complete Pro Tools|HD Native system is comprised of the following:

Choice of HD Native Thunderbolt interface or PCIe card

Unlike USB- or FireWire-based DAWs, which are inherently prone to latency, Pro Tools|HD Native employs either a high-speed Thunderbolt interface or PCIe core card to connect Pro Tools HD Series interfaces with your laptop or desktop computer. By eliminating distracting monitor latency while recording, increasing your I/O capabilities, and providing 64-bit floating-point processing for more headroom and a higher mix resolution, you get a professional native solution that meets the highest audio standards.

Compare latency   View system requirements

Pro Tools HD software

Award-winning Pro Tools software has been the industry-standard digital audio production platform for years. The software tightly integrates your

HD Native hardware and computer together as one, delivering exceptional performance and reliability—even with large mixes. And it comes with all the tools, advanced workflows, virtual instruments, and plug-ins you need to compose, record, edit, and mix music and/or sound for picture.

[Compare Pro Tools software](#)   [Learn more about Pro Tools](#)

One or more Pro Tools HD Series interfaces

Capture and play back audio in stunning clarity and easily work with a wide range of analog and digital gear. Whether you want to streamline your setup with an all-in-one interface, provide mic or MADI connectivity, or need a tightly integrated, flexible system that can handle complex productions with up to 64 channels of I/O, there's a Pro Tools HD Series interface that's right for you—choose one or more to complete your system and customize it for your needs.

[View all HD Series interfaces](#)
http://www.avid.com/US/products/Pro-Tools-HD-Native#Features

Key benefits

- Harness the power of your desktop or laptop computer with your choice of Thunderbolt interface or PCIe card
- Attain the lowest latency and highest performance of any native digital audio workstation
- Capture and play back audio with pristine clarity using a [Pro Tools HD Series interface](#)
- Work with industry-standard [Pro Tools HD software](#) in a lower-cost solution for projects that don't require the DSP acceleration of Pro Tools|HDX

- Create bigger sessions with up to 256 audio tracks and up to 64 channels of I/O
- Get the ideal tracking experience and set-and-forget direct monitoring with an integrated low-latency monitor mode
- Boost your capabilities with advanced automation, surround mixing, input monitoring, AFL/PFL solo, destructive punch, and other professional features
- Conveniently monitor every detail with the audiophile-grade headphone out, which provides enough gain to drive high impedance headphones (Thunderbolt interface only)
- Get better sounding mixes with AAX Native plug-ins, plus Automatic Delay Compensation on hardware and software inserts
- Share sessions with Pro Tools|HDX and Pro Tools|HD users without any loss of data
- Synchronize to timecode and video reference, with frame-edge accuracy, when using [SYNC HD](#) (sold separately)
- Take hands-on control over your mixes using [Artist Series](#) or [Avid Pro Mixing](#) consoles and control surfaces
- Get total flexibility—work with Mac or Windows, Pro Tools HD or third-party software, and more

Features

Experience high performance and reliability

Whether you're tracking multiple inputs or mixing hundreds of tracks, Pro Tools|HD Native tightly integrates with your computer's CPU to keep up with your project's highest demands—without compromise. Choose the HD Native card if you have a PCIe-equipped Mac or PC, or the HD Native Thunderbolt interface, which features a powerful audiophile-grade headphone output for easy monitoring, for Thunderbolt-equipped desktop and laptop computers.

Capture and play back with the highest quality conversion

Get pristine audio fidelity and clarity when you record and play back through a [Pro Tools HD Series interface](#). These critically-acclaimed interfaces offer state-of-the-art A/D and D/A conversion, premium analog circuitry, high-quality/low-noise I/O, and meticulous designs to capture and reproduce the full, natural sound of your original source, so you hear all of the character and nuances that make it unique.

Get higher resolution sound and mix with more headroom

With Pro Tools|HD Native, you can create great sounding, studio-quality productions at up to 32-bit, 192 kHz audio resolution. And with 64-bit floating-point processing, you gain more headroom for your mix, enabling you to flex your creativity and maintain audio clarity—without fear of overloading the mix bus. So go ahead and pile on the plug-ins to get the sound you really want.

Hear what you've been missing—without distracting latency

What happens when you combine best-in-class audio conversion with a high-speed Thunderbolt or PCIe throughput? You get a high-performance system that can handle whatever you throw at it, and the lowest possible latency for your sessions. That means you can monitor your performance in sync with the playback for easier, worry-free recording.

Everything you need for professional music and audio production

With Pro Tools HD software included, you can compose, record, edit, sequence, and mix music and sound for picture with great speed and ease. Create complex compositions with the integrated Score Editor and

MIDI production tools. Track sessions with extremely low latency. And gain inspiration and professional polish from over 75 included effects and virtual instruments.

Expand your capabilities

With Pro Tools|HD Native, you gain the flexibility to customize your system for your needs now and in the future. Mix and match HD Series interfaces to work with up to 64 channels of I/O. Add sync capabilities for working with video. Take hands-on control of your mix with an Avid Pro Mixing console or control surface. And expand your sonic palette with a wide range of AAX* plug-ins and software options available from Avid and other third-party audio developers.

Open up your workflow

Use the included Pro Tools HD software and you'll maximize your productivity, efficiency, and creative potential, as well as gain unparalleled performance and control of Avid audio and video interfaces, control surfaces, and live sound systems. But you can also use your Pro Tools|HD Native hardware with other Core Audio- and ASIO-compatible DAW software such as Logic, Nuendo, Live, Cubase, Reason, and Fruity Loops—with support for 64 channels of I/O—opening up even more creative avenues.

Please note that AAX DSP and TDM plug-ins are not compatible with Pro Tools| HD Native systems.

Compare Pro Tools|HD Family
Table won't copy over correctly via copy/paste. Link:

http://www.avid.com/US/products/Pro-Tools-HD-Native#CompareProToolsHDfamily

System requirements

http://www.avid.com/US/products/Pro-Tools-HD-Native#TechSpecs

Mac OS X

- **Thunderbolt- or PCIe-equipped computer:** [Avid-qualified Apple computer](#)
- **System software:** (64-bit) OS X Mountain Lion (10.8.3)
- **Processor:** Intel Core 2 Duo 2.33 GHz processor or faster
- **Memory:** 8 GB or RAM (16 GB or more recommended)
- **Graphics card:** NVIDIA Quadro FX family (recommended; FX 560 or higher)
- **Internal hard drive:** Minimum 80 GB 7200 rpm hard disk
- USB port for iLok authorization

Windows

- **PCIe-equipped computer:** [Avid-qualified Windows-based computer](#)
- **System software:** (64-bit) Windows 8 Professional, Windows 8, or Windows 7 Home Premium, Professional, or Ultimate with Windows 7 Service Pack 1
- **Processor:** Intel Core 2 Duo 2.33 GHz processor or faster
- **Memory:** 8 GB or RAM (16 GB or more recommended)
- **Graphics card:** NVIDIA Quadro FX family (recommended; FX 560 or higher)
- **Internal hard drive:** Minimum 80 GB 7200 rpm hard disk
- USB port for iLok authorization

Additional system requirements and approved hardware options

- **Pro Tools|HD audio interface required:** ([see details](#))
- **Audio drive requirements:** One or more hard disk drives dedicated for audio Record and Playback ([details](#))
- [Approved video peripherals](#)
- [Approved third-party audio interfaces](#)

Included software

For large-scale projects that demand the utmost in sound quality and performance, Pro Tools HD software enables you to compose, record, edit, and mix the most complex productions quickly and easily.

[Learn more about Pro Tools HD software](#)

Bundled plug-ins

Create music and polish sounds with a huge collection of over 75 virtual instruments, effects, sound processing, and utility plug-ins, plus a massive 8 GB library of high-quality audio loops.

Virtual instruments and audio content

- Big Fish Audio loop library (8 GB)
- Boom drum machine and sequencer
- DB-33 tonewheel organ emulator with rotating speaker simulation
- Mini Grand acoustic grand piano
- Vacuum monophonic vacuum tube synthesizer
- Xpand!2 multitimbral synth and sample workstation

Effects, sound processing, and utility plug-ins

- 1-Band
- EQ III
- 4-Band EQ III
- 7-Band EQ III
- AIR Chorus
- AIR Distortion
- AIR Dynamic Delay
- AIR Enhancer

- AIR Ensemble
- AIR Filter Gate
- AIR Flanger
- AIR Frequency Shifter
- AIR FuzzWah
- AIR KillEQ
- AIR Lo-Fi
- AIR MultiChorus
- AIR Multi-Delay
- AIR Nonlinear Reverb
- AIR Phaser
- AIR Reverb
- AIR Spring Reverb
- AIR StereoWidth
- AIR Talkbox
- AIR Vintage Filter
- BF76 Compressor
- BF Essential Clip Remover
- BF Essential Correlation Meter
- BF Essential Meter Bridge
- BFEssential Noise Meter
- [Channel Strip](#) (based on the [System 5](#)console)
- Chorus
- Click
- Compressor/Limiter
- D-Verb
- DC Offset Removal
- De-Esser
- Delay
- DigiReWire

- Dither
- Down Mixer (5.1 to stereo fold down)
- Duplicate
- Eleven Free
- Expander/Gate
- Extra Long Delay II
- Flanger
- Gain
- Invert
- Lo-Fi
- Long Delay II
- Maxim
- Medium Delay II
- Mod Delay III
- Multi-Tap Delay
- Normalize
- Ping-Pong Delay
- Pitch
- Pitch Shift
- POWr Dither
- Recti-Fi
- Reverse
- SansAmp
- Sci-Fi
- Signal Generator
- Short Delay II
- Slap Delay II
- Time Compression Expansion
- Time Shift
- TL AutoPan

- TL InTune
- TL MasterMeter
- TL Metro
- Trim
- Vari-Fi

Want more plug-ins?

Check out all of the sound processors, effects, virtual instruments, and utilities available for Pro Tools|HD Native [here](#).

What's included

- Pro Tools|HD Native Thunderbolt interface or PCIe card
- DVD wallet, which includes:
    - Pro Tools HD software installation DVD (includes all bundled software)
    - Audio Loops DVD
    - Training Video DVD
- User guides
- iLok USB Smart Key (for software authorization)
- Registration card and software activation cards
- 12-foot DigiLink Mini cable for Pro Tools HD Series interface connection
- DigiLink to DigiLink Mini adapter for older Pro Tools interface connection

http://www.avid.com/US/products/Pro-Tools-HD-Native#hardware-options

Supported interfaces

Get pristine clarity, connection versatility, and the lowest latency.

HD I/O

[View HD I/O](#)

HD OMNI

[View HD](#)

HD MADI

[View HD MADI](#)

PRE

[View PRE](#)

SYNC HD

[View SYNC HD](#)

Artist Series controllers

Take hands-on control of Pro Tools and many other video and audio apps, and connect any combination of these surfaces together to form a seamless, slim-line surface for your workflow needs.

Artist Control

Accelerate audio/video editing and mixing with a 4-fader touchscreen control surface

[View Artist Control](#)

Artist Mix

Accelerate audio mixing in audio/ video software with an 8-fader control surface

[View Artist Mix](#)

Artist Transport

Edit and navigate audio and video projects fast, with a one-handed control surface

[View Artist Transport](#)

Consoles and control surfaces

Get deep hands-on control and great flexibility with a variety of mid- to large-format consoles and control surfaces for more demanding music and post production.

Pro Tools-focused control surfaces

Take deep hands-on control of award-winning Pro Tools systems.

[View C|24](#)
[View ICON D-Command ES](#)
[View ICON D-Control ES](#)

EUCON-based control surfaces

Take deep control of EUCON-enabled DAWs, including Pro Tools, Nuendo Logic Pro, and more.

[View MC Pro](#)
[View System 5-MC](#)

DSP-based hybrid consoles

Get high-performance standalone DSP power and versatile EUCON DAW control.

[View S5 Fusion](#)
[View System 5](#)

Third-party

Control a range of Pro Tools functions with any analog or digital console or control surface that supports the HUI protocol

Extended Avid workflows

Video/media integration

Interplay (Windows Only)

[View Interplay](#)

Video Satellite

[View Video Satellite](#)

ISIS

[View ISIS](#)

Video Satellite LE

[Video Satellite LE](#)
Remote Control

MachineControl

[View MachineControl](#)

Satellite Link

[View Satellite Link](#)

HD Series interfaces

HD I/O
http://www.avid.com/US/products/HD-IO

What is HD I/O?

HD I/O is a high-performance [Pro Tools HD Series](#) audio interface that's designed to completely integrate with [Pro Tools|HD systems](#). The

interface features premium A/D and D/A conversion and advanced circuitry, giving you pristine sound quality and clarity and the lowest possible latency. Plus, with three configurations to choose from and a modular design, you can expand and customize the interface for your connection needs.

Key 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 family system 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 family system through a DigiLink Mini connection (cable and adaptor included)

Features

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 recording. 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 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 singlewire)
  - 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 singlewire)
  - 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 singlewire)
  - 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

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. You can install one option card in HD I/O 8x8x8 and up to two in HD I/O 16x16 Digital. While HD I/O 16x16 Analog comes with the maximum four cards, you can customize your I/O by swapping out any 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 dualwire), 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 with Pro Tools| HD and other DAW software, you can do that too, as all Pro Tools|HD systems support Core Audio and ASIO drivers.

http://www.avid.com/US/products/HD-IO#Specifications

Compatibility

All configurations of HD I/O work with the following host audio systems:

- Avid-qualified Pro Tools|HD family system running Pro Tools HD 8.1 or higher software
- Avid-qualified Pro Tools|HD family system running a Core Audio or ASIO compliant application

Specifications

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http://www.avid.com/US/products/HD-IO#Specifications

HD MADI

http://www.avid.com/US/products/hd-madi

What is HD MADI?

HD MADI is a versatile, all-digital interface that provides 64 channels of MADI I/O, making it easy to integrate Pro Tools|HD systems into post-production and broadcast environments. Get great connection flexibility, fuss-free use through built-in sample rate conversion, and the ability to send and receive audio between your Pro Tools setup and MADI devices up to 2 km (1.24 miles) away.

Watch the latest Pro Mixing Webinar

http://www.avid.com/US/products/hd-madi#features

Key features

Send and receive up to 64 audio streams

Transmit up to 64 audio streams between Pro Tools|HD and other MADI devices.

Maintain maximum audio fidelity

Get reliable transmission—without signal degradation —with up to 24-bit, 192 kHz sample rate support.

Built-in SRC on all I/O channels

Forget having to match sample rates with onboard sample rate conversion.

Keep perfect sync

Sync to an external clock through dedicated BNC Word Clock and XLR AES/EBU connections (when using SRC on output).

Features

Open up your workflow

MADI is an open protocol, and there are a wide variety of MADI-compatible devices available, including digital mixing consoles, mobile recording setups, and routers. With the HD MADI interface, you can easily add MADI devices directly to your recording setup, as well as integrate Pro Tools|HD into broadcast and live sound environments. And because the interface supports both optical and coaxial connections, as well as 56- and 64-channel modes, you can connect to a wide variety of MADI devices from countless manufacturers—without additional format converters.

Fuss-free operation

Forget about having to make sure your sample rates or the master clock match. HD MADI provides built-in sample rate conversion (SRC) on all inputs and outputs, so you can simply plug in and go—no converting sessions or down-sampling external MADI devices. And, because your audio output occurs simultaneously on both the coaxial and optical outputs, you can easily send audio to redundant systems without needing a splitter.

Work with Pro Tools and more

HD MADI and all other Pro Tools HD Series interfaces completely integrate with Pro Tools|HD, so you get maximum performance, dependability, and complete control of your signal flow right from your Pro Tools software interface.

Compatibility

HD MADI works with the following host audio systems:

- Avid-qualified Pro Tools|HD family system running Pro Tools HD 8.1 or higher software
- Any third-party system that supports Core Audio or ASIO drivers

HD OMNI

What is HD OMNI?

HD OMNI is an all-in-one professional preamp, I/O, and monitoring interface for Pro Tools|HD family systems. Capture pristine, high-resolution audio through premium mic preamps, connect your gear to a wide array of analog and digital I/O, and monitor your sessions in up to 7.1 surround—with ultra-low latency—all in one compact, cost-effective interface.

Watch the latest Pro Mixing Webinar

Note: Please be aware that you'll need Pro Tools HD 8.1 or higher software to use this interface—a free update is available for download to all registered Pro Tools HD 8.x users.

Key features

Pristine audio clarity

Get premium sound and ultra-low latency through state- of-the-art A/D and D/A conversion.

High-quality, low-noise analog I/O

Record and monitor performances through 2 premium, mic/DI preamps, 4 line inputs, and 8 line outputs.

Versatile digital I/O

Get 8 channels of ADAT I/O, 2x8 channels of AES/EBU I/O, and 2 channels of S/PDIF I/O.

Complete integration

Experience top performance, thanks to tight integration with Pro Tools| HD for full routing, mixing, and monitoring control.

Capture multiple channels simultaneously

Get support for 4x8 analog audio streams, or 8x8 including digital.

Features

Track, mix, and monitor in one

No need to route signals through multiple interfaces—with HD OMNI, you can do everything in one single-space rack, so you save money and space. As the hub of any music studio, you can use HD OMNI to record high-quality instrument and vocal performances, while providing dedicated cue mixes for artists, and monitor the performance through a discrete mix. For post production, not only do you have overdub and Foley recording capabilities at your disposal, you can use HD OMNI to monitor mixes with up to 7.1 channels—and fold down mixes from 7.1 to almost any channel configuration subset.

Hear what you've been missing

Raising the bar on audio performance, HD OMNI features premium A/D and D/A converters, so you can achieve higher audio fidelity, extensive dynamic range, super-low jitter. and the absolute lowest possible latency in your sessions. 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 be assured that any unexpected peaks in your input won't put you in the red.

Full monitoring flexibility

Whether you want to listen in stereo or surround, monitor sound personally or set up a personal mix for someone else, or hear your work in headphones or on the big speakers, you can do it all with HD OMNI. Mix and monitor up to 7.1 surround (with fold down to stereo). Hear how your mix sounds on different speakers using the Main and ALT speaker selections. Set up an integrated cue mix for artists to monitor. Or isolate yourself with your own headphone mix. And if you don't feel like launching Pro Tools—or even turning on your computer—HD OMNI features a built-in, customizable, 14-input persistent monitor mixer, so you can continue to monitor external sources, such as keyboards, drum machines, and digital music players, independently from your recording setup.

Work with Pro Tools and more

HD OMNI 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, routing, and monitoring 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.

Compatibility

All configurations of HD OMNI work with the following host audio systems:

- Avid-qualified Pro Tools|HD family system running Pro Tools HD 8.1 or higher software
- Avid-qualified Pro Tools|HD family system running a Core Audio or ASIO-compliant application

Specifications

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PRE Mic Pre Interface

What is PRE?

PRE is a high-performance, remote-controllable microphone preamp, enabling you to record performances in pristine-quality sound from anywhere in your studio. The 8-channel interface features eight matched-transistor mic preamp circuits, provides a transparent signal path, and easily accommodates your mic, line, and direct instrument (DI) level inputs. Pair it with a Pro Tools|HD family system to achieve the highest sound quality or standalone.

Features

Whether you're using PRE with a Pro Tools|HD family system or as a standalone mic preamp, you'll get great sound quality with all mic, line and direct input signals you send through it.

- 8 high-performance, matched-transistor, hybrid microphone pre-amplification circuits
- Support for mic (XLR), direct instrument (DI), and line level inputs (1/4")
- Each channel includes a high pass filter, phase reverse, 48V (phantom power), and -18 dB pad
- Fully remote-controllable using Pro Tools | HD software or an Avid control surface; allows for the highest fidelity by keeping low-level signals close to the source
- Selectable impedance matching for mic, line, or instrument inputs
- MIDI IN/OUT/THRU ports for remote operation
- All features supported in standalone mode, making PRE an ideal analog front end for any recording system

http://www.avid.com/US/products/PRE#specifications

Specifications

Input stage

- **Circuit topology:** Discrete Matched Transistor Hybrid
- **Input Gain:** 0 dB to +69 dB in ~3 dB steps, with -18 dB pad engaged; -18 dB to +51 dB
- **Maximum input level:** +47 dBu, pad in, @ 1 kHz, < 0.1% THD
- **Mic E.I.N (unweighted):** -128 dB @ 66 dB gain (20 Hz to 20 kHz) 150 ohm
- **THD+N:** < 0.0005% @ 1 kHz, 0 dB gain @ 20 dB signal; < 0.001% (20 Hz to 20 kHz), 0 dB gain @ 0 dB signal
- **CMMRR:** < -75 dB @ 1 kHz, 140 mVcm, +6 dB gain
- **Crosstalk:** < -90 dB (20 Hz - 20 kHz)
- **Frequency response:** ±0.1 dB; 20 Hz to 20 kHz, @ +48 dB gain
- **Input impedance (Input Z):** 1.5 kohm (low); 15 kohm (mid); 1.5 Mohm (high)

- **Phantom power:** 48V +/- 1V
- **High pass filter:** -3 dB @ 85 Hz, 18 dB/octave
- **Maximum output level:** +29 dBu, balanced, @ 1 kHz, < 0.1% THD

Output stage

- 110/220 Volt 60/50 Hz (auto-sensing)
- AC Line Current = 6A
- 400 Watt Maximum

Dimensions

- Width: 19 in / 48.26 cm
- Height 3.5 in / 8.89 cm
- Depth: 15.63 in / 39.69 cm
- Weight: 14.53 lbs / 6.59 kg

Pro Tools|HD Family Software

HEAT

http://www.avid.com/US/products/HEAT

Overview

Add some HEAT to your mix. Get the warmth and sonic character of analog "in the box" with HEAT (Harmonically Enhanced Algorithm Technology), an easy-to-use Pro Tools|HDX and Pro Tools|HD software add-on that gives you the euphonic characteristics of prized analog gear without the expense or added bulk. Whether you're mixing music or sound for picture, you'll get the unmistakable sonic characteristics of a vintage analog console or outboard gear to "gel" your mixes together—right in Pro Tools. Try it free for 30 days.

Key features

- ◦ Easily add analog warmth and character to any Pro Tools|HDX or Pro Tools| HD mix

- No need to launch a plug-in—access HEAT right in your Pro Tools Mix window
- Control HEAT across every channel of your mix, without having to manage multiple instances
- Realistically re-create the sound of audio mixed through vintage analog gear
- Designed in collaboration with Cranesong founder, Dave Hill

Features

Developed in collaboration with renowned audio designer and Cranesong founder, Dave Hill, HEAT tightly integrates with your Pro Tools|HDX or Pro Tools|HD system, enabling you to easily create rich-sounding mixes like never before—with unique warmth, punch, and clarity.

Old school sound, modern technology

HEAT does more than just warm-up your sound—it actually fuses the color characteristics of vintage analog consoles, vacuum tube circuits, and analog tape into your mix using high-quality, sophisticated algorithms. In the analog world, euphonic characteristics are introduced across individual audio tracks when mixing on an analog console or tracking to analog tape. HEAT works similarly, processing all audio tracks individually. But it also gives you the power to tweak its Drive and Tone controls globally to get the sound you want, whether that means something richer, brighter, smoother, or livelier. You can also A/B individual tracks or the entire mix to compare your handiwork, choose a pre or post insert state, or bypass HEAT altogether.

Set it and forget it

While HEAT uses the AAX DSP and TDM architectures to work its magic, it's no plug-in, making it faster and easier to access and use. That's because HEAT appears right in the Pro Tools Mix window—no need to insert it on every individual track or select it from a menu. Use it on your entire mix, with global Drive and Tone control, for total effortlessness —just "set it and forget it!"—or bypass it on a track-by-track basis to only affect certain sounds.

The magic of outboard—"in the box"

Whether you're mixing music albums or music beds, you can finally step away from costly analog gear and get the sound you're after "in the box" with HEAT. Easily create great-sounding mixes that have the familiar sonic characteristics of being mixed through a vintage console or box—including the pleasant harmonic distortion that "glues" your mixes together—without having to endure the usual technical complexities—or expense.

Wake up your post-production sound

If you're a sound designer or sound effects editor, adding a little HEAT to your tracks can make any sterile-sounding recording or canned effect sound punchier and livelier. Experiment and you can even change-up the character of audio assets into something better or more unique.

http://www.avid.com/US/products/HEAT/specifications

System requirements
- Qualified Avid audio system:

    ◦ Pro Tools|HDX (AAX DSP)

    ◦ Pro Tools|HD or Pro Tools|HD Accel (TDM)

- iLok USB Smart Key (for authorization; not included)

Compatibility

TABLE DOES NOT COPY WELL, LINK TO TABLE:
http://www.avid.com/US/products/HEAT/specifications

Video & Sync Options
Machine Control

http://www.avid.com/US/products/MachineControl-Software

Overview

MachineControl software enables you to easily integrate and control external audio/video devices via industry-standard serial 9-pin machine control protocols. With MachineControl, fast forward, rewind, jog, shuttle, and other common tasks are easily accessible through the Pro Tools graphical interface.

Digidesign MachineControl software offers track-arming for integrated laybacks to external transports. MachineControl also allows you to slave Pro Tools to compatible Sony 9-pin devices, allowing your Pro Tools system to emulate a remote deck. It supports serial time code as a positional reference and features faster lockup times to Sony 9-pin.

With Pro Tools 5.1 and higher software, MachineControl allows you to remotely control Pro Tools from external controllers via industry-standard Sony 9-pin commands. Both music and post-production studios benefit from the ability of Pro Tools to emulate a remote deck.

MachineControl allows for scrubbing of audio and video simultaneously from within Pro

Tools. Check your audio and picture sync quickly and efficiently using the scrub-to-picture feature of MachineControl.

The transport window provides enhanced feedback for the various control modes, including displaying the difference between Shuttle mode and true Rewind or Fast Forward modes. With Transport-Machine mode, the Pro Tools positional cursor will follow the machine's time in Fast Forward or Rewind, showing you the relationship between the external deck's time code and the session.

MachineControl also provides intelligent logic that will tell Pro Tools if a machine's local/ remote mode has been changed from its front panel, eliminating communication problems that may otherwise occur.

MachineControl also offers track arming with insert and assemble recording. MachineControl auto-detects many commonly used transports and presents the appropriate track configuration to the user for intuitive, integrated laybacks to master tapes. When used with Pro Tools 5.0 or newer software, MachineControl supports serial time code as a positional reference and features faster lockup times to Sony 9-pin.

With Pro Tools 5.1 and newer software, MachineControl also allows you to slave Pro Tools to a Sony 9-pin compatible device for the trigger of playback, recording, and track arming from a remote machine, providing even more ways to integrate Pro Tools into your studio setup

Features

- Sony 9-pin and VideoMedia V-LAN protocols supported
- Scrub to picture
- Supports compatible non-linear video recorders/players
- Control your audio or video machine's transport operations within the Pro Tools environment: jog shuttle, fast forward, rewind, etc.
- Pro Tools on-screen cursor and transport counter to keep you informed of the machine's position at all times
- Improved status indication in the transport window provides user feedback for the various control modes
- Slaving of Pro Tools to external controllers via 9-pin Remote Mode*
- Compatible with Mac OS- and Windows-based Pro Tools systems

9-pin Remote Mode requires Pro Tools TDM systems running 5.1 or newer software

System Requirements

- Avid approved Windows-based Pro Tools HD system running v6.x or later
- Avid approved Macintosh-based Pro Tools system running Pro Tools HD 4.0 or newer software

Video Satellite

http://www.avid.com/US/products/video-satellite

What is Video Satellite?

Video Satellite is a software option that enables Pro Tools|HD editors to quickly and easily play Avid HD or SD video sequences from a dedicated Mac-or Windows-based computer, running Avid Media Composer software, in sync with their Pro Tools session. Enhance your post-production efficiency, eliminate the need to render or transcode files, and maintain the full audio track count and processing power of Pro Tools|HD.

Feature highlights

When speed and efficiency are of the utmost importance, Video Satellite bridges Pro Tools|HD and Media Composer family workflows together, enabling you to mix sound in sync with Avid video sequences, without requiring any effects rendering, media transcoding, or file copying.

- Open and play Avid HD and SD sequences without rendering effects, transcoding video, or copying files
- Supports Mojo DX and Nitris DX for full-quality HD video capture and playback
- Import, play back, and capture* all HD video resolutions, including DNxHD, DVCPro HD, AVC-I, XDCAM HD, and HDV

- Work in sync with Media Composer software—the industry's most powerful film- and video-editing software

- Proprietary Ethernet protocol achieves faster lock than 9-pin connections for tighter responsiveness when scrubbing and shuttling
- Stream video directly from Avid ISIS shared storage systems
- Manage projects and assets with Interplay

Feature details

Streamline your workflow

Video Satellite greatly streamlines the workflow between Pro Tools editors and Avid video editors. With Video Satellite installed on the dedicated video playback system, Pro Tools editors can open any bin, or open and play any HD or SD video sequence from it without having to render effects, transcode video, or copy files. And video editors no longer have to export an AAF file or perform a video mixdown to share video material with Pro Tools editors.

Work with Media Composer

With Video Satellite, Pro Tools editors can work in sync with industry-standard Media Composer software. Gain access to its creative tools, media management capabilities, high-quality effects, and output options. Use the built-in templates to simplify operation, and enjoy the same full-resolution, color-corrected video you've seen in the video suite. Video Satellite also ensures compatibility with the latest codecs and formats used by Avid video editors.

Access Avid shared storage

Using Video Satellite on Media Composer system, Pro Tools editors can achieve full integration into the Avid video workflow. Access and stream

video from ISIS shared storage, and manage projects and assets through the Avid Interplay asset management system*. Even import XDCAM-based MXF OP-1a files, and send audio and video to playout servers and archives.

Maintain full Pro Tools HD power

With Video Satellite, there's no need to compromise audio quality when working with hi-def video. Because all video playback is offloaded onto a dedicated Media Composer Video Satellite computer, you can continue to run full audio track count sessions on your Pro Tools|HD system, with all of the automation and processing power intact.
http://www.avid.com/US/products/video-satellite#features

System requirements

For Video Satellite

One of the following:

- Mac- or Windows-based computer running Media Composer 3.1 or higher software
- Mac- or Windows-based computer running Symphony 5 or higher software
- Windows-based computer running Avid Media Station|PT 2.7
- (Optional): Avid Nitris DX, Mojo DX, Mojo SDI, or Adrenaline interface for video playback on an external monitor

For audio production and syncing

One of the following:

- Pro Tools|HD, Pro Tools|HDX, or Pro Tools|HD Native system running Pro Tools HD 8 or higher software (for Media Composer or Symphony sync)
- Windows-based Pro Tools|HD system running Pro Tools HD 7.4 (for Media Station|PT sync)

Plus either:

- SYNC HD or SNYC I/O interface

Documentation

- [Video Satellite Guide v10.0](#)
- [Video Satellite Read Me v8.0](#)
- [Video Satellite Configurations](#)

http://www.avid.com/US/products/video-satellite#Video-Satellite-specs

Video Satellite LE

http://www.avid.com/US/products/Video-Satellite-LE

What is Video Satellite LE?

Video Satellite LE is a software option that enables Pro Tools|HD editors to easily play QuickTime HD/SD video or Avid SD video from a separate but synced Pro Tools system. With Video Satellite LE installed on the Pro Tools software-based system, you control video playback in sync with your session on Pro Tools|HD while preserving your system's full audio track count and processing power.

Video Satellite LE is a cost-effective way of bringing high-definition or standard-definition video into your Pro Tools|HD audio workflow. Whether you want to work with QuickTime HD or SD formats, or Avid SD video, Video Satellite LE allows you to keep video playback separate from your audio production, but tightly synced.

Features

- Sync [Pro Tools HD](#) sessions with HD or SD video playback running on a separate computer running Pro Tools

- Control all audio and video system transport commands from the Pro Tools HD system
- Proprietary Ethernet protocol achieves faster lock than 9-pin and tighter lock than MIDI Time Code for exceptional responsiveness when scrubbing and shuttling
- Supports loop playback
- Play back video on the desktop or through a supported video card or peripheral
- Supports qualified [Blackmagic Design](#) video cards for QuickTime HD/SD playback
- Supports Avid SD and QuickTime SD video playback with [Avid Mojo DX](#)

* Qualified Avid video peripheral required to capture certain video resolutions.

Go high- or standard-def

Video Satellite LE allows you to work with both high- and standard-definition QuickTime video, or standard-definition Avid video. Play back QuickTime HD or SD video on the desktop, or install a qualified Blackmagic Design video card (such as the Blackmagic DeckLink HD Extreme card) for full-screen video monitoring from a separate Pro Tools standalone computer. Or connect an Avid Mojo SDI to the Pro Tools computer and play back Avid SD or QuickTime SD video through the video peripheral for full-screen video monitoring.

Superior synchronization

Using a proprietary Ethernet connection protocol that delivers faster lockup time than traditional 9-pin solutions and tighter synchronization than MIDI Time Code, Video Satellite LE keeps your Pro Tools|HD audio and Pro Tools Video Satellite LE systems in sync. Control all audio and video transport commands from your Pro Tools rig—including scrubbing—with great ease and responsiveness.

Cost-effective flexibility

As it works with Avid's most affordable Pro Tools system, Video Satellite LE is the perfect cost-effective solution for working on professional video projects without having to sacrifice your Pro Tools|HD system's host resources for video playback. And as a nice bonus for post professionals, Video Satellite LE gives you the flexibility of creating your own video playback system at home, allowing you to work on projects outside of a networked post-production facility.
http://www.avid.com/US/products/Video-Satellite-LE#features

System requirements

For video playback (Video Satellite LE system)

- Avid-qualified Mac Pro system running Pro Tools 9 or higher software
- Video Satellite LE software option
- iLok USB smart key for Video Satellite LE authorization (sold separately)
- Ethernet connection to a Local Area Network (LAN)

For audio production (Pro Tools|HD family system)

- Avid-qualified Pro Tools|HDX, Pro Tools|HD Native, or Pro Tools|HD system
- SYNC HD or HD I/O locked to video reference required for frame edge alignment
- Ethernet connection to a Local Area Network (LAN)

Not supported with Video Satellite LE

- Audio playback on the Pro Tools/Video playback system has not been tested, and may not be in sync with audio playback on the Pro Tools|HDX, Pro Tools|HD Native, or Pro Tools|HD system
- Canopus ADVC-110 has not been tested

Network connections

Video Satellite LE requires all linked systems to be connected to an Ethernet Local Area Network. All systems should be on the same subnet, and it is recommended that all systems be on the same Ethernet switch, to minimize response time over the network.

Video options

Video Satellite LE can use the following video playback options:

- QuickTime playback via an Avid-qualified [Blackmagic Design](#) video cards
- [Avid Mojo SDI](#)
- QuickTime desktop playback via the primary or secondary computer monitor

Compatibility with Satellite Link

The Avid [Satellite Link](#) option enables you to connect and control multiple Pro Tools HD-based systems as one through Ethernet. Video Satellite LE can be used in conjunction with Satellite Link to connect one Video Satellite LE system with up to 11 Pro Tools|HDX, Pro Tools|HD Native, and/or Pro Tools|HD systems running Pro Tools 10 or higher, or up to four Pro Tools|HD Native or Pro Tools|HD systems running Pro Tools 9 or lower.

Documentation

Downloads

- [Software updates & downloads](#)
- [Video Satellite LE Read Me v8.1](#)
- [Video Satellite LE Guide v8.1](#)
- [Video Satellite LE 8.0cs1 (MAC)](#)
- [Video Satellite LE Guide v10.0](#)
- [Video Satellite LE Read Me v10.0](#)

Quick links

- [Compatibility and upgrade information](#)
- [Pro Tools|HD family forums](#)

http://www.avid.com/US/products/Video-Satellite-LE#Specifications

Hardware Options
Pro Tools Custom Keyboard - Mac

http://www.avid.com/US/products/Pro-Tools-Custom-Keyboard-Mac

Overview

Work faster in your Pro Tools environment with direct access to primary transport and editing functions. Designed for Mac-based Pro Tools systems, this affordable Pro Tools Custom Keyboard uses the same symbols and color coding system built into Avid control surfaces while retaining all the conventional alphanumeric labels that appear on standard computer keyboards. The keyboard also offers plug-and-play USB connectivity.

Features

Work faster in your Pro Tools environment with direct access to primary transport and editing functions. This affordable Pro Tools Custom Keyboard uses the same symbols and color coding system built into the ICON D-Control™ worksurface and other Avid control surfaces while retaining all the conventional alphanumeric labels that appear on standard computer keyboards.

With functionality specific to Mac systems, the keyboard features plug-and-play USB connectivity.

- Text and icons for main Pro Tools custom key commands, in addition to standard keyboard alphanumeric lettering
- Based on Apple Mac G5 Pro Keyboard
- Two USB ports and USB connection cord

System Requirements

- Avid-qualified Mac-based Pro Tools|HD, Pro Tools LE, or Pro Tools M-Powered system. (Note that some key commands are available only with Pro Tools HD software or with the DV Toolkit 2 option for Pro Tools LE.)

Pro Tools Custom Keyboard - Windows

Overview

Work faster in your Pro Tools environment with direct access to primary transport and editing functions. Designed for Windows-based Pro Tools systems, this affordable Pro Tools Custom Keyboard uses the same symbols and color coding system built into Avid control surfaces while retaining all the conventional alphanumeric labels that appear on standard computer keyboards. The keyboard also offers plug-and-play USB connectivity with additional support for a PS-2 connection.

Features

Work faster in your Pro Tools environment with direct access to primary transport and editing functions. This affordable Pro Tools Custom Keyboard uses the same symbols and color coding system built into the ICON D-Control worksurface and other Avid control surfaces while retaining all the conventional alphanumeric labels that appear on standard computer keyboards.

With functionality specific to Windows systems, the keyboard features plug-and-play USB connectivity with additional support for a PS-2 connection.

- Text and icons for main Pro Tools custom key commands, in addition to standard keyboard alphanumeric lettering
- PS-2 connection cord and USB adapter for easy connection with either method

System Requirements

- Avid-qualified Windows-based Pro Tools|HD, Pro Tools LE, or Pro Tools M-Powered system. (Note that some key commands are available only with Pro Tools HD software or with the DV Toolkit 2 option for Pro Tools LE.)

Surround Panner ES Option for Pro Tools

Overview

Move sound throughout the surround field over time with the Surround Panner ES Option for Pro Tools. This dedicated, high-quality surround controller is aesthetically designed for

the [ICON D-Command ES console](), but you can use it with any Pro Tools|HD or Pro Tools LE (with the [Complete Production Toolkit]()) system in conjunction with an Avid control surface such as [C|24](), [003 Factory](), or [Command|8](). With the Surround Panner ES Option, you can tangibly control surround panning, volume, mute, LFE, and more with precision through the touch-sensitive joystick, five rotary knobs, and nine switches.

Details

With the all-metal Surround Panner ES Option for Pro Tools, you get complete tactile surround sound control in a high-quality, stylish design that easily connects to your Pro Tools|HD or Pro Tools LE* system through MIDI.

Features

- Touch-sensitive joystick with brushed aluminum handle
- Updated color scheme matches the look and feel of D-Command ES
- Controls all panning parameters in Pro Tools, including LFE, divergence, and center percentage
- Dedicated Previous and Next track buttons
- Connects to Pro Tools via MIDI through a qualified MIDI interface
- Includes a 5-meter (16.4-foot) combo MIDI and power cable

Complete Surround Control

The Surround Panner ES Option features a single touch-sensitive joystick, five rotary knobs, and nine switches, giving you complete control of your system's surround channels including pan, divergence, volume, mute, LFE, and center percentage. And because the joystick is touch-sensitive, you gain great efficiency benefits whenever you're writing surround automation.

In addition, you can use various panner controls to navigate to adjacent tracks and Main/Send output assignments, "punch" into existing automation sequences, and open and close the Pro Tools panner window. And with the included 5-meter combo power and MIDI cable, you can use the Surround Panner while you monitor your mix in an optimal location in your studio — anywhere up to almost 16-1/2 feet away from your MIDI interface.

Flexible Integration

Although the Surround Panner ES Option for Pro Tools was designed to match and be used with the ICON D-Command ES console, you can use it with other Avid control surfaces, including C|24, 003 Factory, and Command|8, and with Pro Tools|HD and Pro Tools LE* systems for your surround control needs.

Pro Tools LE use requires the Complete Production Toolkit software option for up to 7.1 surround capabilities.

EB7 PCIe-to-PCIe Expansion Chassis

http://www.avid.com/US/products/EB7-PCIe-to-PCIe-Expansion-Chassis

Overview

Get the ultimate in Pro Tools|HD power. The EB7 PCIe-to-PCIe Expansion Chassis enables you to expand your PCIe-based Pro Tools|HD system with up to seven HD Core/ Accel cards for maximum processing power and track counts. This 4U rack-mount system works with Mac- and Windows-based systems, offers seven available PCIe (PCI Express) slots, and comes with a PCIe host interface card to expand the capabilities of your system.

Features

- Durable, all-steel 4U rack-mount enclosure with seven PCIe slots

- PCIe host interface card (for computer connection)

- Fan provides optimal cooling within the ventilated enclosure

- Ultra-quiet 500 watt power supply

- Includes 3-meter iPass cable

Elevate Your Power and Performance

Increase your track counts and gain more power to run a host of the most processor-intensive virtual instruments and sound processing plug-ins. With the EB7 PCIe-to-PCIe Expansion Chassis, you can install up to seven PCIe-based HD Core/HD Accel Core/HD Accel cards into the all-steel, ventilated enclosure to achieve maximum Pro Tools|HD power. And when your sessions really heat up, the internal fan will ensure your DSP cards stay nice and cool.

Totally Easy Set-up

Expanding your system couldn't be easier; simply install the host card into your computer, install all of your Pro Tools|HD DSP cards into the chassis, power everything up, and you're ready to go - no drivers to install or settings to configure.

System Requirements

- Qualified PCIe-based Mac with Pro Tools|HD running Pro Tools HD 7.4.2 or higher software on Mac OS X 10.5.3 or higher
- Qualified PCIe-based PC with Pro Tools|HD running Pro Tools HD 8 or higher software on Windows Vista (32 bit) with Service Pack 1 or Windows XP with Service Pack 3

Downloads

- [EB7 PCIe-to-PCIe Expansion Chassis Guide (PDF)](#)
- [EB7 PCIe-to-PCIe Expansion Chassis Guide (PDF) - Japanese](#)

Artist Series

Artist Color

http://www.avid.com/US/products/Artist-Color

What is Artist Color?

With the compact, ergonomic Artist Color, you gain deep hands-on control of all color correction and grading tasks — with great precision and speed. Whether you use Media Composer, Symphony, Color, Smoke for Mac, STORM, or REDCINE-X, you get the superior feel and control of high-end grading hardware at a fraction of the cost, plus unparalleled access to all software color functions. And with programmable Soft Keys, you can customize the surface to speed your workflow.

Key features

- 3 optical, high-resolution trackballs
- 3 optical, high-resolution trackwheels
- 6 touch-sensitive rotary encoders
- 6 high-resolution OLED displays
- 6 Reset keys
- 9 programmable Soft Keys to trigger keyboard shortcuts, macro commands, and more...
- Transport and navigation controls
- Ethernet connectivity for high-speed, high-resolution control
- Supports EUCON, HUI, and Mackie Control protocols
- Controls multiple applications and workstations
- Slim, compact design for easy studio integration and portability

All features

Take control with EUCON

With Artist Color, you gain deep, integrated control over your favorite EUCON-enabled creative applications. EUCON carries high-resolution control information for trackballs, trackwheels, knobs, displays, and more between Artist Color and whatever application is in focus on your computer. This enables you to quickly switch between multiple applications—and even workstations—at the touch of a button, with all controls and displays automatically matching the selected application.

High-resolution, high-speed control
With 8x the resolution and 250x the speed of MIDI, EUCON gives you powerful, highly responsive tactile control that feels like working on a high-end grading system.

Work with multiple applications

Speed up modern, multi-app workflows. With Artist Color, you can switch applications directly from the surface, and all controls and displays will instantly match your current application.

Control multiple workstations
Access any workstation running EUCON-enabled software on your extended network, with keyboard and mouse commands automatically forwarded to the selected workstation—ideal for multi-workstation workflows and facilities with machine rooms.

Customize for your needs
Connect multiple Artist Series controllers to function as one extended control surface—or use them independently. You can even customize the controls to meet your needs, such as setting the control sensitivity and more.

Future proof
Avid and its development partners continue to develop EUCON, making it easy to add new features and functionality for your [favorite software](#) through software updates. EUCON even supports HUI and Mackie Control protocols for even greater flexibility with other creative apps.

Get precision control

With three highly responsive optical trackballs and trackwheels at your fingertips, you get the same tactile feedback and precision usually found on only high-end color grading solutions. You can even toggle the center trackball on the fly to work as a mouse—your hands never have to leave the surface during grading. You can also adjust the control sensitivity directly from the surface to suit your preferences.

View feedback in high-resolution

Easily view parameter names and values on the six 128 x 64-pixel OLED displays as you make changes with the trackballs, trackwheels,

and six encoders. These displays also show you room or view names when in NAV Mode.

Control playback with ease

Play, stop, go forward or backward, jump to the next clip or previous clip, and more using dedicated transport controls that provide effortless project navigation. You can also use the Soft Keys to trigger additional transport and navigation functions for even greater flexibility in editing and navigating your project.

Customize your control surface

Because Artist Series controllers are modular, you can combine them in a variety of configurations to suit your workflow. Customize your Artist Series system with up to one [Artist Control](#), four [Artist Mixes](#), one [Artist Transport](#), and one [Artist Color](#)for total flexibility—up to 36 faders total. Simply clip the units together to form a seamless surface—or use them separately—as each has its own Ethernet connection.

http://www.avid.com/US/products/Artist-Color#TechSpecs

System Requirements

Windows

- **OS:** Windows 7 Home premium, professional, or Ultimate (32- or 64- bit)*
- **Processor:**1 GHz or faster 32-bit (x86) or 64-bit (x64)
- **RAM:** 1 GB (32-bit) / 2 GB (64-bit)
- **Hard disk space:** 500 MB free
- **Ethernet port:** 10/100 Base-T**

Mac OS X

- **OS:** Max OS X 10.5 or higher (32- or 64-bit)
- **Processor:** Intel® processor (no PowerPC® support)

- **RAM:** 1 GB (2 GB or more recommended)
- **Hard disk space:** 500 MB free
- **Ethernet port:** 10/100 Base-T*

* Current EUCON driver does not support Japanese Windows 7

** Ethernet hub or switch required to connect additional units or to connect to a network

Specifications

- **Dimensions (W x H x D):** 20" x 9.5" x 1.2" (50 x 24.1 x 3 cm)
- **Weight:** 5.5 lbs (2.5 kg))
- **Line voltage:** 100 - 240 V AC
- **Frequency:** 50 Hz to 60 Hz

Compatible software

Video

Avid Media Composer

[Media Composer](#)
[See control details](#)

NewsCutter

[NewsCutter](#)
[See control details](#)

Avid Symphony

[Symphony](#)
[See control details](#)

Avid DS

[Avid DS](#)
[See control details](#)

Apple Color

[Apple Color](#)
[See control details](#)

Assimilate SCRATCH

[Assimilate SCRATCH](#)
[See control details](#)

Autodesk Smoke for Mac

[Autodesk Smoke for Mac](#)
[See control details](#)

Blackmagic Design DaVinci Resolve

[Blackmagic Design](#)
[See control details](#)

Colorfront On-set Dailies

[Colorfront On-set Dailies](#)
[See control details](#)

Digital Vision Phoenix

[Digital Vision Phoenix](#)
[See control details](#)

FilmLight Baselight

[FilmLight Baseline](#)
[See control details](#)

Image Systems Nucoda Fuse

[Image Systems Nucoda Fuse](#)
[See control details](#)

Pomfort LiveGrade

[Pomfort LiveGrade](#)
[See control details](#)

Pomfort Silverstack SET

[Pomfort Silverstack SET](#)
[See control details](#)

RED REDCINE-X

[REDCINE-X](#)
[See control details](#)

The Foundry STORM

[The Foundry STORM](#)
[See control details](#)

What's In the Box

- Artist Color controller
- Artist Series DVD-ROM (includes software and electronic user guides)
- Ethernet crossover cable cable
- Rise brackets (2)
- Universal AC power adapter
- Quick setup guide
- Registration card

Artist Control

http://www.avid.com/US/products/Artist-Control

What is Artist Control?

Artist Control is a compact 4-fader control surface with a built in touchscreen that offers unmatched integration and programmability to accelerate editing and mixing tasks in any EUCON-enabled audio or

video application. Speed up and enhance your workflow with functionality far beyond what a mouse and keyboard can provide, so you can focus on being creative.

Key features

- View and access top-level information, track record arm/solo/mute/select commands, Soft Keys, surround panning, and more using the customizable LED-backlit touchscreen
- Trigger keyboard shortcuts, macro commands, and more through unlimited programmable touchscreen Soft Keys and 12 physical Soft Keys
- Get highly responsive control through high-speed Ethernet connectivity...
- 4 touch-sensitive 100mm long throw motorized faders
- 8 touch-sensitive rotary encoders
- Data wheel and transport controls with modifier keys to assign wheel function
- Dedicated monitor/control room level and talkback mic controls
- Footswitch jack to punch in and out of recording
- Supports EUCON, HUI, and Mackie Control protocols
- Controls multiple applications and workstations
- Slim, compact design for easy studio integration and portability
- Dedicated Record/Automation, Select/Assign, Shift, track navigation, and Application/Workstation change key

All features

Take control with EUCON

With Artist Control, you gain deep, integrated control over your favorite creative applications, such as Pro Tools, Media Composer, Logic, Nuendo, Cubase, Maestro, and [more](). EUCON carries high-resolution control information for faders, knobs, displays, and more between Artist Control and whatever application is in focus on your computer. This enables you to quickly switch between multiple applications—and even workstations—at the touch of a button, with all controls and displays automatically matching the selected application.

High-resolution, high-speed control
With 8x the resolution and 250x the speed of MIDI, EUCON gives you powerful, highly responsive tactile control that feels like mixing on a professional mixing console

Work with multiple applications
Speed up modern, multi-app workflows with seamless app switching—Artist Control instantly adapts to your current app. You can even lock parts of the surface to one app while using the rest to switch between apps—perfect for monitor and/or transport controls.

Control multiple workstations
Access any workstation running EUCON-enabled software on your extended network, with keyboard and mouse commands automatically forwarded to the selected workstation—ideal for multi-workstation workflows and facilities with machine rooms.

Customize for your needs
Connect multiple Artist Series controllers to function as one extended control surface or use them independently, and customize the controls to meet your needs. Set control sensitivity, lock fader channels to session tracks as "Layouts" that save with the project, and more.

Future proof
Avid continues to develop EUCON, making it easy for development partners to add new features and functionality to your favorite software through updates. EUCON even supports HUI and Mackie Control protocols for even greater flexibility.

Take control with the touchscreen

With the touchscreen interface, you get comprehensive visibility and quick control over your project. Not only can you view top-level information such as track names/numbers, metering (from mono to 5.1 surround data), fader/pan values, and automation modes, but you can also quickly access all of your plug-in and EQ parameters, trigger macro commands, perform surround panning, and much more. The high-resolution, LED-backlit display offers a wide viewing angle, bright graphics, and excellent color consistency...

Tracks view

Get instant and direct access to your project's audio tracks to quickly record arm, solo, mute, or select them for editing—without ever touching your mouse. Each track displays its current status, and up to 32 tracks can be displayed per page—simply page down or up to see more. This greatly speeds up working with large projects, and displayed tracks automatically match the colors assigned to them in your project.

Surround view

Perform surround directly from the touchscreen for supporting applications, including Pro Tools HD, Nuendo, Cubase, Logic Pro, and Soundtrack Pro.

Setup view

Assign the Monitor/Control Room knob to audio sources and destinations in applications that support this function, such as Avid Studio Monitor Express, which ships with Artist Control. You can also engage a talkback mic, dim/cut the control room volume, and cut monitor volume directly from the touchscreen.

Soft Keys view

Trigger application functions, keystroke shortcuts, and macro commands directly from the touchscreen to speed up your workflow and assign keyboard shortcuts to a single Soft Key. Assign various functions to the data wheel on the fly. Effortlessly navigate your application menus and more—all without your hands ever leaving the control surface. Artist Control displays 32 Soft Keys per page, but you can program as many Soft Keys as you want using the intuitive Soft Key Editor. To see more than 32 Soft Keys, simply page up/down or program Soft Keys to jump directly to specific pages to speed your navigation. Artist Control intelligently recognizes the current application—each application has an associated Application Set, which automatically loads the appropriate Soft Keys whenever you switch apps. Artist Control ships with preprogrammed Soft Keys for most popular audio and video applications, but you can easily create your own custom Soft Keys for your needs.

Quickly and easily navigate projects

With its ergonomic layout, Artist Control puts the data entry wheel and transport controls right at your fingertips for easy navigation

You can also assign functions to the data wheel—such as horizontal or vertical zoom, jog, shuttle, and more—for custom control. And use the Soft Keys to assign additional custom data wheel and transport functions for even greater flexibility in editing and navigating your project.

Mix with precision

Get accurate and smooth mixing control through four high-quality, motorized, touch-sensitive, 100mm long throw faders. Easily select tracks for editing just by touching the corresponding fader.

Use dedicated keys to bank tracks (four at a time) or nudge tracks (one at a time) to quickly navigate through projects. You can even lock individual tracks to faders and store them as Layouts (up to 48 per project). Layouts are saved with your project for easy recall, making mixing large projects a breeze. Save multiple Layouts to mix drums, keyboards,guitars, and so on, or just lock a fader to act as a master fader.

Customize your control surface

Because Artist Series controllers are modular, you can combine them in a variety of configurations to suit your workflow. Customize your Artist Series system with up to one Artist Control, four [Artist Mixes](#), one [Artist Transport](#), and one [Artist Color](#) for total flexibility—up to 36 faders total. Simply clip the units together to form a seamless surface—or use them separately—as each has its own Ethernet connection.

http://www.avid.com/US/products/Artist-Control#Specifications

System requirements

Windows

- **OS:** Windows 7 Home Premium, Professional, or Ultimate (32- or 64- bit)*

- **Processor:** 1 GHz or faster 32-bit (x86) or 64-bit (x64)

- **RAM:** 1 GB (32-bit) / 2 GB (64-bit)

- **Hard disk space:** 500 MB free

- **Ethernet port:** 10/100 Base-T**

Mac OS X

- **OS:** Mac OS X 10.5 or higher (32- or 64-bit)

- **Processor:** Intel® processor (no PowerPC® support)

- **RAM:** 1 GB (2 GB or more recommended)

- **Hard disk space:** 500 MB free

- **Etherent port:** 10/100 Base-T*

Current EUCON driver does not support Japanese Windows 7

** *Ethernet hub or switch required to connect additional units or to connect to a network*

Specifications

- **Dimensions (W x D x H):** 20 x 9.5 x 1.2 inches (50.8 x 24.1 x 3 cm)

- **Weight:** 5.5 lbs (2.5 kg)

- **Screen size:** 6 x 3.62 inches (15.2 x 9.1 cm)

- **Line voltage:** 100—240V AC

- **Frequency:** 50Hz to 60Hz

Compatible software

Audio

Pro Tools

Pro Tools 10
See control details

Adobe Audition

Adobe Audition
See control details

Apogee Maestro

Apogee Maestro
See control details

Apple Logic (Pro and Express)

Apple Logic
See control details

Apple Soundtrack Pro

[Apple Soundtrack Pro](#)
[See control details](#)

Cakewalk SONAR

[Cakewalk SONAR](#)
[See control details](#)

MAGIX Sequoia

[MAGIX Sequoia](#)
[See control details](#)

Merging Pyramix

[Merging Pyramix](#)
[See control details](#)

Metric Halo MIO Console

[Metric Halo MIO Console](#)
[See control details](#)

MOTU Digital Performer

[MOTU Digital Performer](#)
[See control details](#)

Steinberg Cubase

[Steinberg Cubase](#)
[See control details](#)

Steinberg Nuendo

[Steinberg Nuendo](#)
[See control details](#)

Video

Avid Media Composer

[Media Composer](#)
[See control details](#)

NewsCutter

[NewsCutter](#)
[See control details](#)

Avid Symphony

[Symphony](#)
[See control details](#)

Apple Color

[Apple Color](#)
[See control details](#)

Apple Final Cut Pro

[Apple Final Cut Pro](#)
[See control details](#)

What's in the box

- Artist Control controller
- Artist Series DVD-ROM (includes software and electronic user guides)
- Ethernet crossover cable
- Rise brackets (2)
- Universal AC power adapter
- Quick setup guide
- Registration card

Artist Mix

http://www.avid.com/US/products/Artist-Mix

What is Artist Mix?

Artist Mix is an 8-fader control surface that offers greater speed and control than a mouse when mixing audio in any EUCON-enabled audio or video application. Get fast access to a variety of software functions right from the surface to adjust audio levels, plug-in parameters, panning, automation modes, and much more—with excellent visual feedback—all in a compact footprint that fits perfectly between your keyboard and screen.
http://www.avid.com/US/products/Artist-Mix#features

Key features

- 8 touch-sensitive 100 mm long throw motorized faders
- 8 touch-sensitive rotary encoders
- 8 high-resolution OLED displays
- Ethernet connectivity for high-speed, high-resolution control
- Footswitch jack to punch in and out of recording
- Supports EUCON, HUI and Mackie Control protocols
- Controls multiple applications & workstations
- Slim, compact design for easy studio integration and portability

All features

Take control with EUCON

With Artist Mix, you gain deep, integrated control over your favorite EUCON-enabled creative applications, such as Pro Tools, Media Composer, Logic, Nuendo, Cubase, Maestro, and more. EUCON carries high-resolution control information for faders, knobs, displays, and more between Artist Control and whatever application is in focus on your computer. This enables you to quickly switch between multiple applications—and even workstations—at the touch of a button, with all controls and displays automatically matching the selected application.

High-resolution, high-speed control

With 8x the resolution and 250x the speed of MIDI, EUCON gives you powerful, highly responsive tactile control that feels like mixing on a professional mixing console.

Work with multiple applications

Speed up modern, multi-app workflows with seamless app switching—Artist Mix instantly adapts to your current app. You can even lock parts of the surface to one app while using the rest to switch between apps—perfect for monitor and/or transport controls.

Control multiple workstations

Access any workstation running EUCON-enabled software on your extended network, with keyboard and mouse commands automatically forwarded to the selected workstation—ideal for multi-workstation workflows and facilities with machine rooms.

Customize for your needs

Connect multiple Artist Series controllers to function as one extended control surface or use them independently, and customize the controls to meet your needs. Set control sensitivity, lock fader channels to session tracks as "Layouts" that save with the project, and more.

Future proof

Avid continues to develop EUCON, making it easy for development partners to add new features and functionality to your favorite software through updates. EUCON even supports HUI and Mackie Control protocols for even greater flexibility.

Mix with precision

Get accurate and smooth mixing control through four high-quality, motorized, touch-sensitive, 100 mm long throw faders. Easily select tracks for editing just by touching the corresponding fader.

Use dedicated keys to bank tracks (eight at a time) or nudge tracks (one at a time) to quickly navigate through projects. You can even lock individual tracks to faders and store them as Layouts (up to 48 per project). Layouts are saved with your project for easy recall, making mixing large projects a breeze. Save multiple Layouts to mix drums, keyboards, guitars, and so on, or just lock a fader to act as a master fader.

Adjust parameters with a twist

Control everything from panning and gain to plug-in parameters, EQ settings, and more using the eight touch-sensitive rotary encoders, with instant positional feedback displayed on the high-resolution OLED displays.

With the touch-sensitivity, you can write automation quickly and intuitively. The encoders are also velocity-sensitive, enabling you to quickly sweep from minimum to maximum parameter values in one turn, or make very precise adjustments by turning the encoder slowly. Press the encoder tops to instantiate plug-ins, sends, and more, as well as navigate through parameters.

View feedback in high resolution

Easily view track names/numbers, detailed metering data (from mono to 5.1 surround), parameter names/values, current automation mode, and more through eight 128 x 64-pixel OLED displays. Get instant feedback about the item you're modifying the moment you move the corresponding rotary encoder.

Customize your control surface

Because Artist Series controllers are modular, you can combine them in a variety of configurations to suit your workflow. Customize your Artist

Series system with up to one [Artist Control](), four Artist Mixes, one [Artist Transport](), and one [Artist Color]() for total flexibility—up to 36 faders total. Simply clip the units together to form a seamless surface—or use them separately—as each has its own Ethernet connection.

http://www.avid.com/US/products/Artist-Mix#specifications

System requirements

Windows

- **OS:** Windows 7 Home premium, professional, or Ultimate (32- or 64- bit)*
- **Processor:** 1 GHz or faster 32-bit (x86) or 64-bit (x64)
- **RAM:** 1 GB (32-bit) / 2 GB (64-bit)
- **Hard disk space:** 500 MB free
- **Ethernet port:** 10/100 Base-T**

Mac OS X

- **OS:** Max OS X 10.5 or higher (32- or 64-bit)
- **Processor:** Intel® processor (no PowerPC® support)
- **RAM:** 1 GB (2 GB or more recommended)
- **Hard disk space:** 500 MB free
- **Ethernet port:** 10/100 Base-T*

Current EUCON driver does not support Japanese Windows 7

** *Ethernet hub or switch required to connect additional units or to connect to a network*

Specifications

- **Dimensions** (W × D × H): 16.8 × 9.5 x 1.2 inches (42.7 × 24.1 × 3 cm)
- **Weight**: 4.8 lbs (2.5 kg)
- **Line voltage:** 100–240 V AC
- **Frequencey**: 50 Hz to 60 Hz

Compatible software

Audio

Pro Tools

[Pro Tools](#)
[See control details](#)

Adobe Audition

[Adobe Audition](#)
[See control details](#)

Apogee Maestro

[Apogee Maestro](#)
[See control details](#)

Apple Logic (Pro and Express)

[Apple Logic](#)
[See control details](#)

Apple Soundtrack Pro

[Apple Soundtrack Pro](#)
[See control details](#)

Cakewalk SONAR

[Cakewalk SONAR](#)
[See control details](#)

MAGIX Sequoia

[MAGIX Sequoia](#)
[See control details](#)

Metric Halo MIO Console

[Metric Halo MIO Console](#)

See control details

Merging Pyramix

Merging Pyramix
See control details

MOTU Digital Performer

MOTU Digital Performer
See control details

NewTek TriCaster

NewTek TriCaster
See control details

Steinberg Cubase

Steinberg Cubase
See control details

Steinberg Nuendo

Steinberg Nuendo
See control details

Video

Avid Media Composer

Media Composer
See control details

NewsCutter

NewsCutter
See control details

Apple Final Cut Pro

Apple Final Cut Pro
See control details

Avid Symphony

What's in the box

- Artist Mix controller
- Artist Series DVD-ROM (includes software and electronic user guides)
- Ethernet crossover cable
- Rise brackets (2)
- Universal AC power adapter
- Quick setup guide
- Registration card

Artist Transport

http://www.avid.com/US/products/Artist-Transport

What is Artist Transport?

Artist Transport is a compact media controller that enables you to quickly navigate and edit projects with just one hand. Get the features and tactile feel of a high-end console transport section in a more affordable, portable solution that's ideal for laptop use—and the perfect add-on to Artist Mix and Artist Color.

http://www.avid.com/US/products/Artist-Transport#Features

Key features

- Speed up tasks with the assignable, weighted data wheel
- Move through your project using the assignable, spring-loaded shuttle ring

- Trigger keyboard shortcuts, macro commands, and more with six programmable Soft Keys
- Navigate through projects fast using seven programmable transport controls with multi-color status LEDs
- Quickly navigate to time code/markers or edit parameters using the integrated numeric keypad
- View time code, parameter names/values, and more through high-resolution OLED display
- Get high-speed, high-resolution control through Ethernet connectivity
- Take control of software using EUCON, HUI, or Mackie Control protocols
- Control multiple applications and workstations
- Slim, compact design for easy studio integration and portability

All features

Take control with EUCON

With Artist Transport, you gain deep, integrated control over your favorite creative applications, such as Pro Tools, Media Composer, Logic, Nuendo, Cubase, Maestro, and more. EUCON carries high-resolution control information for faders, knobs, displays, and more between Artist Transport and whatever application is in focus on your computer. This enables you to quickly switch between multiple applications—and even workstations—at the touch of a button, with all controls and displays automatically matching the selected application.

High-resolution, high-speed control
With 8x the resolution and 250x the speed of MIDI, EUCON gives you powerful, highly responsive tactile control that feels like mixing on a professional mixing console.

Work with multiple applications

Speed up modern, multi-app workflows. With Artist Transport, you can switch applications directly from the surface, and all surface controls and displays will instantly match your current application.

Control multiple workstations
Access any workstation running EUCON-enabled software on your extended network, with keyboard and mouse commands automatically forwarded to the selected workstation—ideal for multi-workstation workflows and facilities with machine rooms.

Customize for your needs
Connect multiple Artist Series controllers to function as one extended control surface or use them independently, and customize the controls to meet your needs. Set control sensitivity, lock fader channels to session tracks as "Layouts" that save with the project, and more.

Future proof
Avid continues to develop EUCON, making it easy for development partners to add new features and functionality to your favorite software through updates. EUCON even supports HUI and Mackie Control protocols for even greater flexibility.

Get precision control

From navigation to fine editing, the weighted, optically encoded data wheel puts a host of functionality at your fingertips with the responsiveness and feel of a high-end console data wheel. Navigate your timeline, edit clips, and tweak parameters with precision.

Use the Soft Keys to assign various functions to the data wheel on the fly. And perform everything from basic jogging to zooming horizontally or vertically, trimming clip heads and tails, setting clip gain, crossfading clips, and more.

Speed up navigation and more

Effortlessly shuttle through your timeline using the optically encoded, springloaded shuttle ring. The rubberized surface provides excellent

tactile control, and like the data wheel, you can switch the shuttle ring functionality on the fly using the Soft Keys for quick custom control.

Trigger custom actions

Instantly perform application functions, keystroke shortcuts, and macro commands using the six Soft Keys. Take a series of repetitive keyboard shortcuts that you use for editing and assign them to a single Soft Key.Assign various functions to the data wheel and shuttlering on the fly.

Assign various functions to the data wheel and shuttlering on the fly. Effortlessly navigate your application menus and more—all without your hands ever leaving the controller. And when you use the Shift key together with any of these six Soft Keys (as well as the transport and numeric keys), you gain another 29 Soft Keys that you can program to gain fast access to your most frequently used functions.

Artist Transport intelligently recognizes the current application in focus. Each application has an associated Application Set, which automatically loads the appropriate Soft Keys whenever you switch apps. Artist Transport ships with preprogrammed Soft Keys for most popular audio and video applications but you can easily create your own custom Soft Keys for your needs.

Enter data quickly

Using the integrated numeric keypad, you can instantly jump to time code or marker locations, as well as edit parameters by entering numbers. Like the transport controls, you can have all 16 numeric keys function as programmable Soft Keys when you use them with the Shift key. Press the Show Key on the numeric keypad to display the function of any Soft Key.

Control playback with ease

Play, rewind, fast forward, set markers, and more using the seven ergonomic keys set around the data wheel. You can view the status of each key through the multi-color LEDs, and easily program the functionality of each using the Soft Key editor. These controls automatically switch to match whatever application is in focus, and when used in conjunction with the Shift key, you get additional Soft Keys to program custom navigation and editing functions.

Customize your control surface

Because Artist Series controllers are modular, you can combine them in a variety of configurations to suit your workflow. Customize your Artist Series system with up to one [Artist Control](#), four [Artist Mixes](#), one Artist Transport, and one [Artist Color](#) for total flexibility—up to 36 faders total. Simply clip the units together to form a seamless surface—or use them separately—as each has its own Ethernet connection.

http://www.avid.com/US/products/Artist-Transport#TechSpecs

System requirements

Windows

- **OS:** Windows 7 Home Premium, Professional, or Ultimate (32- or 64- bit)*
- **Processor:** 1 GHz or faster 32-bit (x86) or 64-bit (x64)
- **RAM:** 1 GB (32-bit) / 2 GB (64-bit)
- **Hard disk space:** 500 MB free
- **Ethernet port:** 10/100 Base-T**

Mac OS X

- **OS:** Mac OS X 10.5 or higher (32- or 64-bit)
- **Processor:** Intel processor (no PowerPC support)
- **RAM:** 1 GB (2 GB or more recommended)
- **Hard disk space:** 500 MB free
- **Ethernet port:** 10/100 Base-T*

* Current EUCON driver does not support Japanese Windows 7

** Ethernet hub or switch required to connect additional units or to connect to a network

Specifications

- **Dimensions:** 9 x 9.5 x 1.2 inches (22.9 x 24.1 x 3 cm)
- **Weight:** 2.6 lbs (2.5 kg)
- **Line voltage:** 100—240V AC
- **Frequency:** 50Hz to 60Hz

Compatible software

Audio

Pro Tools

[Pro Tools 10](#)
[See control details](#)

Apple Logic (Pro and Express)

[Apple Logic](#)
[See control details](#)

Apple Soundtrack Pro

[Apple Soundtrack Pro](#)
[See control details](#)

MOTU Digital Performer

[MOTU Digital Performer](#)
[See control details](#)

Merging Pyramix

[Merging Pyramix](#)
[See control details](#)

Steinberg Cubase

[Steinberg Cubase](#)
[See control details](#)

Steinberg Nuendo

[Steinberg Nuendo](#)
[See control details](#)

Video

Avid Media Composer

[Media Composer](#)
[See control details](#)

NewsCutter

[NewsCutter](#)
[See control details](#)

Avid Symphony

[Symphony](#)
[See control details](#)

Avid DS

[Avid DS](#)
[See control details](#)

Apple Color

[Apple Color](#)
[See control details](#)

Apple Final Cut Pro

[Apple Final Cut Pro](#)
[See control details](#)

Autodesk Smoke for Mac

[Autodesk Smoke for Mac](#)
[See control details](#)

Colorfront On-set Dailies

[Colorfront On-set Dailies](#)
[See control details](#)

FilmLight Baselight

[FilmLight Baselight](#)
[See control details](#)

What's in the box

- Artist Transport controller
- Artist Series DVD-ROM (includes software and electronic user guides)
- Ethernet crossover cable
- Rise brackets (2)
- AC power adapter
- Quick setup guide
- Registration card

<u>Pro Mixing Family</u>
Pro Tools-focused surfaces
C|24
http://www.avid.com/US/products/C24

What is C|24?

Sleek and stylish, the 24-channel C|24 control surface provides direct hands-on control of Pro Tools and Pro Tools|HD mixing, recording, and editing; a complete array of high-quality analog inputs; and a 5.1 analog

monitor section to use with your Pro Tools I/O. It tightly integrates with the latest advancements in Pro Tools software to provide an incredibly powerful and richly featured console option.

Key features

- Direct hands-on access to recording, editing, routing, and mixing functions in Pro Tools HD or Pro Tools

- 24 bankable channel strips, each with a touch-sensitive, motorized fader and dedicated Mute, Solo, Select, Input, Record, EQ, Dynamics, Insert, Send, and Automation buttons

- Easy-to-read, 6-character, dual-row LED scribble strip displays provide instant visual feedback for channel names, plug-in parameters, sends, panning, and other editing functions

- 24 high-quality rotary encoders with LED rings

- 16 high-quality mic / line / DI preamps with high-pass filters and variable input gain allow direct mic, instrument, and line-level connections (via DB25) for recording through an Avid audio interface

- 8-channel stereo line submixer, which can be routed directly to the monitor section

- Professional, integrated 5.1 surround analog monitor system with trimmable inputs and outputs

- Built-in talkback mic and inputs for remote talkback and listenback

- External power supply allows for a more streamlined console design

- Intelligent switch design with bold graphics makes the layout easy to memorize and navigate

- Sleek, low-profile industrial design with stylish dark graphite color scheme

- Easy Ethernet connectivity

Details

Total hands-on control

C|24 provides direct hands-on access to recording, editing, routing, and mixing functions in Pro Tools software. The control surface features 24 bankable channel strips, each with a touch-sensitive, motorized fader; high-quality rotary encoder and LED ring; dedicated Mute, Solo, and channel select illuminated buttons; and dedicated Input, Record, EQ, Dynamics, Insert, Send, and Automation buttons. It also features many more Edit commands, windows management controls, and dedicated buttons than its Control|24 predecessor, plus a Soft Keys section that allows future features to be added as Pro Tools software evolves.

Superb mic preamps and analog submixer

C|24 isn't just about controlling tracks; you can connect mics, instruments, and line-level devices directly to the control surface's audio inputs (via DB25 connections). C|24 features 16 super high-quality, low-noise preamps, each with a high-pass filter and variable input gain, that outperform those on Control|24 in every way, including gain, frequency response, signal-to-noise ratio, and more. It also houses an 8-channel stereo line submixer, which can be routed directly to the integrated monitor section, making it easy to mix signals from outboard instruments and gear.

Mix with precision

Get accurate and smooth mixing control through four high-quality, motorized, touch-sensitive, 100mm long throw faders. Easily select tracks for editing just by touching the corresponding fader. Use dedicated keys to bank tracks (eight at a time) or nudge tracks (one at a time) to quickly navigate through projects. You can even lock individual tracks to faders and store them as Layouts (up to 48 per project). Layouts are saved with your project for easy recall, making mixing large projects a breeze. Save multiple Layouts to mix drums, keyboards, guitars, and so on, or just lock a fader to act as a master fader.

Efficient console ergonomics and integration

C|24 is designed to provide you with high workflow efficiency, and offers more dedicated controls and features, though it retains many of the same proven workflows, making upgrading to C|24 an easy transition.Flip mode makes it easy to switch encoder functions to the faders, while dedicated Bank Select and Nudge buttons enable easier Pro Tools mixer navigation. C|24 also offers an updated transport section for machine control integration; Windows Configurations and Memory Locations modes for creating, editing, and recalling these settings; an LED timecode display that shows absolute time, SMPTE, Feet/Frames, and Bars/Beats; and a jog/shuttle wheel for scrubbing, editing, bank-nudging, and navigation.

Professional 5.1 analog monitor section

The monitoring section in C|24 has been completely redesigned and improved, providing many features found on Avid's coveted ICON integrated console systems. It features a professional, integrated 5.1 surround analog monitor section; 5.1, LCRS, and stereo presets for easy integration with Pro Tools; output metering for stereo and surround-sound operation; trimmable inputs and outputs; talkback latching and Auto Talkback modes; and more. And the built-in talkback mic and remote talkback and listenback inputs make it easy to set up two-way communication for your recording sessions.

Beautiful, streamlined design

Sporting a sleek, industrial design with a stylish, dark graphite color scheme, C|24 fits right in with traditional and modern music and post-production studios. The control surface occupies a small footprint, offers an ergonomic design with a comfortable front bolster, and allows for better placement of your computer monitor and speakers thanks to its low-profile meterbridge. The control surface also features an intelligent switch design with bold graphics, making the layout easy to memorize and navigate. And the bright, easy-to-read, 55 x 2 LED scribble strips provide a 6-character, dual row display per channel for instant

verification of channel names, plug-in parameters, sends, panning, and other editing functions.

System requirements

- Avid-qualified Pro Tools|HD system running Pro Tools HD 7.3.2 or higher software
- Avid-qualified computer running Pro Tools 9 or higher software
- Avid-qualified Pro Tools LE system running Pro Tools LE 7.4 or higher software

Specifications

Dimensions

- **Width:** 41 in (104 cm)
- **Height:** 7.3 in (18.5 cm)
- **Depth:** 29.8 in (75.7 cm)

Analog specifications

Mic input

- **Gain:** +2 dB – +51 dB
- **Frequency response:** -0 dB @ 10 Hz, -1 dB @ 100 kHz
- **Max input:** +16 dBu
- **Max output:** +18 dBu
- **EIN:** -127 dBu
- **THD+N:** 0.004% @ 1 kHz, -1 dBFS @ 40 dB gain

Line input

- **Gain:** -6 dB – +43 dB
- **Frequency response:** -0.5 dB @ 10 Hz, -1 dB @ 100 kHz

- **Max input:** +24 dBu
- **Max output:** +18 dBu
- **Dynamic range:** 108 dB A-weighted / 105 dB (unweighted)
- **THD+N:** 0.004% @ -3 dBFS

Instrument input

- **Gain:** -6 dB – +43 dB
- **Frequency response:** -0.5 dB @ 10 Hz, -1 dB @ 100 kHz
- **Max input:** +24 dBu
- **Max output:** +18 dB
- **S/N:** -19 dBu
- **Dynamic range:** 108 dB A-weighted / 105 dB (unweighted)
- **THD+N:** 0.004% @ -3 dBFS

Submixer

- **Gain:** -infinity – +10 dB
- **Frequency response:** -0.5 dB @ 10 Hz, -3 dB @ 160 kHz
- **Max input:** +29.5 dBu
- **Max output:** +29.5 dBu
- **S/N:** 117 dB (20 Hz – 20 kHz)
- **THD+N:** 0.00035% @ 1 kHz @ +27 dBu

Monitor section

- **Gain:** -infinity – unity;
- **Frequency response:** -1 dB @ 10 Hz, -1 dB @ 95 kHz
- **Max input:** +23 dBu
- **Max output:** +29.5 dBu
- **S/N:** 102 dB unweighted
- **THD+N:** 0.002%
- **L/R channel matching:** +/- 1 dB

ICON D-Command ES

What is ICON D-Command ES?

Speed up recording and mixing by taking powerful, hands-on control over projects of any size. With the compact yet expandable D-Command ES console, you get the exclusive deep Pro Tools control and extended functionality of an ICON control surface packaged in a smaller footprint that fits nicely in small to midsize studios.

All features

Get unrivaled control, power, and reliability from a compact yet expandable digital console. Designed for small to mid-sized rooms, the ICON D-Command ES console gives you the ultimate in hands-on Pro Tools HD control, plus provides extended Pro Tools functionality

Key features

- Sleek ergonomic console, with dark color scheme added to the original award-winning design
- Eight touch-sensitive, motorized faders in base configuration; expandable to 40 faders/ channels with optional 16-channel D-Command ES Fader Modules
- Exclusive ICON-only access to Pro Tools HD recording, editing, routing, mixing, plug-ins, automation, recall, and other functions
- Two touch-sensitive, multipurpose rotary encoders per channel strip, each with an LED ring, 6-character alphanumeric LCD, and tricolor automation indication LED

- 15 illuminated pushbuttons and one channel name display per channel strip
- Dedicated center section houses EQ and Dynamics controls for optimal monitoring while mixing
- Two 32-segment bargraph meters per channel; eight 32-segment bargraph meters in the master section
- Includes XMON analog monitoring (up to 5.1 surround) and communications system
- Patent-pending Ethernet protocol provides high-speed connection between the console and Pro Tools mix engine

Dedicated center section

Fine-tune the EQ and other plug-in parameters without leaving the monitoring "sweet spot." D-Command ES features dedicated EQ and Dynamics center sections, allowing you to perfect your mix while seated in the optimal listening position.

Expand your control

Need more faders to handle larger projects? You can expand your base console up to 40 faders/channel strips with 16-channel D-Command ES Fader Modules for maximum control. Plus, with the console's easy banking features, you can mix even larger sessions that go beyond the console's physical 40-fader capacity.

Powered by Pro Tools|HD

With [Pro Tools HD 10](), you can turn your Mac or PC into a professional, high-performance audio production system, and create and deliver music and audio projects in amazing sound quality. Add D-Command ES to your system, and you gain exclusive hands-on Pro Tools control and functionality not found with any other console, allowing you to maximize your productivity— and creativity—to the fullest.

Get more options

Whether you need more faders/channels to support larger sessions, want to mix in surround with full tactile control, or something else, you can customize your ICON console with options to suit your workflow and session needs.

Specification

ICON D-Command ES

Console height

- **Front**: 2.6" / 6.5 cm
- **Rear**: 10.2" / 26cm

Console width

- **8-fader console:** 32.3" / 82 cm
- **24-fader console:** 55.6" / 141.2 cm

Console depth

- 29.2" / 74.3 cm

Main unit weight

- 58 lbs / 26.4 kg

Main unit power

- **AC:**100 - 240 VAC, 50 - 60 Hz, .54 A

Fader module weight

- 49.5 lbs / 22.5 kg

Fader module power

- **AC:**100 - 240 VAC, 50 - 60 Hz, .70 A

XMON Monitor System

- **Height:** 2U rack enclosure
- **Width:** 19" / 48.3 cm
- **Depth:** 14"/35.6cm + 3"/ 7.6cm cable access
- **AC:** 100-240 VAC, 50-60 Hz, 0.5 A

XMON Main Monitor Path

- Gain range: -90 dB to +30 dB in 1 dB steps with 0.5 dB trim
- Frequency response: 20Hz-200kHz ± 0.1 dB
- Maximum input level: +26 dB
- THD+N: 0.0006 @ 1 kHz @ +15 dBu
- CMRR: >75 dB

http://www.avid.com/US/products/ICON-D-Command-ES#hardware-options

Fader Module

ICON D-Command Fader Module

Extend the hands-on control features of D-Command ES by adding a D-Command ES Fader Module to your console for a total of 24 faders. With 16 channel strips and faders, you gain extended Pro Tools HD control and minimized paging. Each channel strip features a touch-sensitive motorized fader, two multi- purpose touch-sensitive rotary encoders, and an array of buttons for quick access to key session parameters.

Features

- 16 touch-sensitive, motorized 100mm faders
- Two touch-sensitive, multi-purpose rotary controls per channel
- Dedicated controls for assignment and activation of inputs, outputs, inserts, and sends

- Flexible display of pan, insert, send, plug-in, and mic preamp controls
- Dedicated controls for all channel strip functions, including recording and input monitoring modes, mute, solo, and channel select
- Dedicated controls for automation mode, enable, and safe status
- Flip Mode for transfer of parameters from rotary controls to faders
- Custom Faders mode for flexible channel and parameter mapping
- Patent-pending Ethernet protocol to connect host to worksurface and Fader Modules
- Easy installation

Meter section

The Meter section can display track levels, plug-in meters, and other parameters, such as gain reduction, depending on your D- Command ES metering preferences.

Easy installation

Adding a D-Command ES Fader Module to your D-Command ES console is easy — no complicated hardware configuration is required. The expansion kit includes extension arms to expand the D-Command work surface to accommodate the installation.

Channel strips

All 16 channel strips on the D-Command ES Fader Module have identical channel controls, including two touch-sensitive, multi- purpose rotary encoders — each with single-color LED ring, six- character alphanumeric LCD display, and tricolor automation indication LED. Each channel strip also features multiple push- buttons, display and mode controls, and a touch-sensitive, motorized fader.

What's included

- ICON D-Command ES Fader Module
- AC power cord
- Ethernet cable

Modifier keys

Each D-Command ES Fader Module features four switches in the lower-left corner that duplicate the functions of the Pro Tools computer keyboard modifiers.

Specifications

- **Weight:** 49.5 lbs / 22.5 kg
- **Size:** 23.1" W × 29.4" L × 10.75" H (58.67 cm × 74.68 cm × 27.31 cm)
- **AC:** 100 240 VAC, 50 - 60 Hz, .70 A

Surround Panner

ICON D-Command Surround Panner for Pro Tools

Move sound throughout the surround field over time with the Surround Panner ES Option for Pro Tools.
This dedicated, high-quality surround controller is aesthetically designed for the ICON D-Command ES
console, but you can use it with any Pro Tools|HD or Pro Tools LE (with the [Complete Production Toolkit](#))
system in conjunction with an Avid control surface such as [C|24](#), [003 Factory](#), or [Command|8](#). With the
Surround Panner ES Option, you can tangibly control surround panning, volume, mute, LFE, and more
with precision through the touch-sensitive joystick, five rotary knobs, and nine switches.

Features

- Touch-sensitive joystick with brushed aluminum handle

- Updated color scheme matches the look and feel of D-Command ES
- Controls all panning parameters in Pro Tools, including LFE, divergence, and center percentage
- Dedicated Previous and Next track buttons
- Connects to Pro Tools via MIDI through a qualified MIDI interface
- Includes a 5-meter (16.4-foot) combo MIDI and power cable

Downloads

- [Surround Panner Option Guide v8.0](#)
- [Surround Panner Option Guide - Japanese](#)

Complete surround control

The Surround Panner ES Option features a single touch-sensitive joystick, five rotary knobs, and nine switches, giving you complete control of your system's surround channels including pan, divergence, volume, mute, LFE, and center percentage. And because the joystick is touch- sensitive, you gain great efficiency benefits whenever you're writing surround automation. In addition, you can use various panner controls to navigate to adjacent tracks and Main/Send output assignments, "punch" into existing automation sequences, and open and close the Pro Tools panner window. And with the included 5-meter combo power and MIDI cable, you can use the Surround Panner while you monitor your mix in an optimal location in your studio — anywhere up to almost 16 1/2 feet away from your MIDI interface.

Flexible integration

Although the Surround Panner ES Option for Pro Tools was designed to match and be used with the ICON D-Command ES console, you can use it with other Avid control surfaces, including C|24, 003 Factory, and Command|8, and with Pro Tools|HD and Pro Tools LE* systems for your surround control needs.

* Pro Tools LE use requires the Complete Production Toolkit software option for up to 7.1 surround capabilities.

Third Party ICON Options

Enhance your ICON system and workflow with several hardware and software options from Avid and third-party vendors.

Peripheral Hardware Solutions

Synchronization

[Brainstorm Electronics](#)
[Colin Broad Electronics](#)
[Soundmaster](#)
[SynCheck](#)

Connectivity

[Gefen Extension Solutions](#)
[Avocent KVM Systems](#)

Noise Reduction

[CEDAR DNS2000](#)

Storage

[Studio Network Solutions](#)
[Glyph Technologies](#)

Furniture

[Argosy Consoles](#)
[Sound Construction](#)
[AKA Design](#)
[Omnirax](#)
[ICON Shelf](#)
[Kensington Trackball Mount](#)

Encoding

[Dolby Laboratories](#)

[Neyrinck for Broadcast](#)

Monitoring

[Adgil DIRECTOR](#)

[Martinsound MultiMAX](#)

Preamps

[PRE](#)

[Millenia HV-3R](#)

[DAD AX24](#)

[Neve 1081R](#)

Interfacing

[RME MADI Interfaces](#)

[SSL Delta Link MADI](#)

Patchbays

[Switchcraft 9625](#)

[Redco Audio](#)

Peripheral Software Applications

Utilities

[Pro Tools Pref Helper](#)

[Mouse Locator](#)

[Region Synch](#)

SFX Management

[SoundMiner](#)

[CND NetMix Pro](#)

[Sonomic](#)

[Snapper](#)

Support for Panner

[Brainworx](#)

Diagnostics

[DiskWarrior](#)
[Data Rescue 3](#)
Encoding

[Neyrinck SoundCode](#)
[SRS Circle Surround](#)
[Minnetonka SurCode](#)
[Dolby Surround Tools](#)

Noise Reduction

[iZotope RX](#)
[Waves Z-Noise](#)
[Sonic NoNOISE](#)
[Cube-Tec Restoration](#)

Data Management

[Carbon Copy Cloner](#)
[SuperDuper!](#)
[Folders Synchronizer X](#)
Conforming

[Virtual Katy](#)

Networking

[Source Connect](#)
[Source Live](#)

ICON D-Control ES

http://www.avid.com/US/products/ICON-D-Control-ES

What is ICON D-Control ES?

Mixing even the largest, most complex sessions can be a highly efficient affair. Powered by Pro Tools, ICON D-Control ES puts the highest level of hands-on control and extended Pro Tools functionality at your fingertips, enabling you to record, edit, route, mix, automate, recall, and perform other Pro Tools tasks right from the console surface.

http://www.avid.com/US/products/ICON-D-Control-ES#features

All features

Designed for larger rooms, the highly expandable D-Control ES console provides unparalleled integration with Pro Tools|HD, delivering the ultimate in hands-on Pro Tools control, unmatched power, and rock-solid reliability.

Grab the touch-sensitive controls to edit and mix with tactile precision. Get unmatched visual feedback on your mix through individual sends and dynamics metering across the surface. Gain complete control over all processing functions and routing per channel. Even fine-tune mixes without leaving the "sweet spot" through centrally located EQ, Dynamics, and Focus Channel Strip sections. And with additional Fader Modules, you can expand the console up to 80 faders as your projects grow.

Key features

- Dedicated center section panels for EQ and Dynamics control for optimal monitoring while mixing
- Built-in Pro Tools keyboard provides direct access to editing functions
- XMON analog monitoring (up to 7.1 surround) and communications system (included)

- Exclusive ICON-only access to recording, editing, routing, mixing, plug-ins, automation, recall, and other Pro Tools functions
- Slim, sleek, large-format ergonomic console
- 16 touch-sensitive, motorized faders in base configuration: expandable up to 80 physical faders/channel strips with optional 16-channel Fader Modules
- Centrally located Focus Channel Strip with fader allows placement of any channel in the mixing "sweet spot"
- Six touch-sensitive, multi-purpose rotary encoders per channel strip, each with a multicolor LED ring, 6-character alphanumeric multicolor LCD display, and tricolor automation indication LED

Powered by Pro Tools|HD

ICON was designed for perfect integration with [Pro Tools|HD](), the world's most popular digital audio workstation. Consisting of computer-based DSP cards, modular audio interfaces, and Pro Tools software, Pro Tools|HD turns your computer into a professional, high-resolution audio production system, delivering amazing sound quality (up to 192 kHz) and unmatched processing power. Add ICON, and you gain exclusive Pro Tools control and functionality not found with any other console, allowing you to maximize your productivity—and creativity—to the fullest.

Expand your control with options

Whether you need more faders/channels to support larger sessions, want to mix in surround with full tactile control, or something else, you can customize your ICON console with options to suit your workflow and session needs.

Specifications

ICON D-Control Master Module

- **Weight:** 88.15 lbs / 39.98 kg
- **AC:** 100-240 VAC, 50-60 Hz

ICON D-Control Fader Module

- **Weight:** 62.5 lbs / 28.35 kg
- **AC:** 100-240 VAC, 50-60 Hz, 2.5 A

ICON D-Control Console Width

- 16-fader console: 65.3" / 165.86 cm
- 32-fader console: 88.5" / 224.79 cm
- 48-fader console: 111.6" / 283.46 cm
- 64-fader console: 134.8" / 342.39 cm
- 80-fader console: 157.9" / 401.07 cm

XMON

- 2U rack enclosure
- **Width:** 19" / 48.26 cm
- **Depth:** 14"/35.56cm + 3"/7.62cm cable access
- **AC:** 100-240 VAC, 50-60 Hz, 0.5 A

XMON Main Monitor Path

- **Gain range:** -90 dB to +30 dB in 1 dB steps with 0.5 dB trim
- **Frequency response:** 20Hz-200kHz +/- 0.1 dB
- **Maximum input level:** +26 dB
- **THD+N:** 0.0006 @ 1 kHz @ +15 dBu
- **CMRR:** >75 dB

Surround Panner

ICON D-Control Surround Panner Option

Gain powerful and convenient surround sound panning control right from the center section of your DControl ES console. Whether you mix music or post-production sound, the D-Control Surround Panner provides an ergonomic method for moving sound throughout the surround field. Plus, its custom assignment capabilities enable you to use the touchscreen or joysticks to manipulate plug-in parameters in creative new ways.

Customizable for your creativity

Simply mount the D-Control Surround Panner into the preconfigured bay within your D-Control ES console's center section, and you're ready to go. With its centralized location, you can now place sounds accurately and fine-tune them without leaving the monitoring sweet spot.

Crucial control in the sweet spot

If you work in post, sound design, or music mixing, the D-Control Surround Panner gives you some creative flexibility, letting you customize non-pan-related control assignments. Enter Custom Assign mode to place any parameter in the Focused channel on the X or Y axis. For example, you could assign the gain and frequency of an EQ to the panner's X and Y axes to achieve dramatic filter sweeps with a simple fingertip or joystick move.

Tight integration with Pro Tools

The D-Control Surround Panner integrates directly with Pro Tools HD software to deliver robust automated panning. You can also use AutoGlide to pan sounds automatically from one position to the next to move sound over time. Write pan automation by simply pressing new

locations in the Surround Panner window in real time; the sound moves to the new location during playback based on your AutoGlide Time settings. And use Glide Automation in Pro Tools to create precise offline automation.

System requirements

- ICON D-Control worksurface
- Pro Tools|HD system running Pro Tools HD 7 or higher software

Fader Module

ICON D-Control Fader Module Option

Extend the hands-on control features of D-Control ES by adding one or more D-Control ES Fader Modules to your console (up to a total 80 faders). Gain 16 additional channel strips and faders with each module, which features the same ergonomic design as the D-Control ES, for extended Pro Tools HD control and minimized paging. Plus, its abundance of LCD displays, LED rings, and bar-graph meters deliver critical visual feedback.

Features

- 16 touch-sensitive, motorized Penny and Giles faders, with +12 dB of gain above unity
- Six touch-sensitive, multi-purpose rotary controls per channel
- Dedicated controls for assignment and activation of inputs, outputs, inserts, and sends
- Flexible display of pan, insert, send, plug-in, and mic preamp controls
- Dedicated controls for all channel strip functions, including recording and input monitoring modes, mute, solo, and channel select
- Dedicated controls for automation mode, enable, and safe status

- Flip Mode for transfer of parameters from rotary controls to faders
- Custom Faders mode for flexible channel and parameter mapping
- Patent-pending Ethernet protocol to connect host to worksurface and Fader Modules
- Easy installation

Channel strips

All 16 channel strips on the D-Control ES Fader Module have identical channel controls, including six touch-sensitive, multipurpose rotary encoders—each with a multicolor LED ring; sixcharacter alphanumeric, multicolor LCD display; and tricolor automation indication LED. Each channel strip also features multiple push-buttons, display and mode controls, and a touchsensitive, motorized fader.

Meter section

The 32-segment tricolor meters can display track levels, plug-in meters, and other parameters, depending on your D-Control ES metering preferences.

Modifier keys

Each D-Control ES Fader Module features four switches in the lower-left corner that duplicate the functions of the Pro Tools computer keyboard modifiers.

Easy installation

Adding a D-Control ES Fader Module to your D-Control ES console is easy — no complicated hardware configuration is required. The expansion kit includes extension arms to expand the D-Control worksurface to accommodate the installation.

What's included

- ICON D-Control ES Fader Module
- AC power cord
- Ethernet cable

Specifications

- Weight: 62.5 lbs / 28.35 kg
- Size: 23.2" W x 41.8" L x 12" H (58.93 cm x 106.17 cm x 30.48 cm)
- AC: 100 240 VAC, 50 60 Hz, 2.5 A

Script Tray

ICON D-Control Script Tray

The D-Control Script Tray rolls easily across the D-Control worksurface on soft wheels, allowing you to keep scripts, notes, or a remote control close at hand. The sturdy metal frame and clear acrylic top provide the convenience and utility of a moveable flat surface right where you need it most. The Script Tray is an important addition for post production, ADR, and other recording, editing, and mixing projects. Dimensions are 15" W x 21.9" L x 1.5" H (31.8 cm x 55.626 cm x 3.81 cm).

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EUCON-based surfaces

MC Pro

What is MC Pro?

The compact and ergonomic MC Pro control surface enables you to speed up your post or music editing and take deep hands-on control of Pro Tools, Logic Pro, Nuendo, and other EUCON-enabled applications. What's more, the surface automatically detects your current application (when working with multiple apps) and resets all controls to match. And with its programmable SmartSwitches, you can perform complex tasks/keystrokes with a single button press.

Key features

- Get instant, customizable pushbutton access to hundreds of commands
- Perform complex macros with the programmable SmartSwitches, with integrated LCDs to show the current function

- Get easy access to for the system setup and file operations with the touchscreen
- Navigate and edit with the integrated USB keyboard/trackball and jog wheel
- Control settings and more with high-resolution faders (or joysticks) and rotary controls
- Monitor surround sound with Studio Monitor Express
- Get deep hands-on control of Pro Tools, Logic Pro, Nuendo, Digital Performer, Pyramix and more through high-speed EUCON control
- Mix multichannel audio with the Studio Monitor Express application, with surround sound monitor matrix, speaker controls, solo, and talkback mic
- Get extensive connectivity including 1/4" footswitch jack, headphone thru jack, touchscreen VGA out, standard keyboard and mouse ports, USB port, serial port and Ethernet

Features

Surface details

- Trackball and programmable jog/shuttle wheel
- Full-size qwerty keyboard with numeric keypad (can be changed for a user-preferred keyboard)
- 56 programmable SmartSwitches, each with an integral LCD display to show their function
- 9 soft knobs for processor and plug-in control
- 4 faders (or dual joystick panners as an option)
- 6 strip control buttons associated with the faders
- 4 buttons for selecting multiple workstations
- High-resolution touchscreen for setup and control

Take control with EUCON

With MC Pro, you can take deep, integrated control over up to four of your favorite EUCON-enabled creative applications, such as Pro Tools, Logic, Nuendo, Pyramix, Digital Performer, and more. EUCON carries high-resolution control information for faders, knobs, displays, and more between MC Pro and the selected application. This enables you to quickly switch between multiple applications—and even workstations—at the touch of a button, with all controls and displays automatically matching the selected application.

High-resolution, high-speedcontrol
With 8x the resolution and 250x the speed of MIDI, EUCON gives you powerful, highly responsive tactile control.
Work with multiple applications
Speed up modern, multi-app workflows. With MC Pro, you can switch applications directly from the surface, and all surface controls and displays will instantly match your current application.
Control multiple workstations
Access any Mac or PC workstation running EUCON-enabled software on your extended network, with keyboard and mouse commands automatically forwarded to the selected workstation—ideal for multi-workstation workflows.
Future proof
Avid and its development partners continue to develop EUCON, making it easy to add new features and functionality through software updates—EUCON even supports HUI and Mackie Control protocols for even greater flexibility.

Supported EUCON-enabled applications

- [Pro Tools](#)
- [Apogee Maestro for Duet, Ensemble, and Symphony 64](#)
- [Apple Logic](#)
- [Apple Final Cut Pro](#)

- [Apple Soundtrack Pro](#)
- [Cakewalk SONAR](#)
- [Digital Audio Denmark AX24 Converter System](#)
- [MAGIX Sequoia](#)

- [Merging Pyramix](#)
- [Metric Halo MIO Console](#)
- [MOTU Digital Performer](#)
- [Steinberg Nuendo](#)

Intuitive, flexible mixing

MC Pro is a professional surface that puts full editing control at your fingertips. Work faster and easier with 56 LCD SmartSwitches, four faders, jog wheel, monitoring section, and touchscreen for the ultimate in software control. You also get an integrated full-sized keyboard, as well as a trackball and jog/shuttle wheel, for easy keystroke editing and navigation.

Get instant access with a touch

Quickly access files, system setup, and program various functions from the high-resolution touchscreen, which sits just above the keyboard. The screen also shows you a permanent display of filenames, transport state, fader labels, and the main menu. You can also customize each section of the surface using the Setup button, which brings up a setup screen for that section of the surface.

The touchscreen includes the following display screens:

- Multiple workstation setup and selection
- File management
- Track selection and management

- Soft Key setup—assign functions and keyboard commands to the SmartSwitches
- System setup and preferences
- Edit Control banks, Soft Key banks, User Sets, and Application Sets (can all be named, stored, recalled, renamed, and deleted)

Perform complex functions in a single press

Instantly perform application functions, keystroke shortcuts, and macro commands using the LCD display SmartSwitches that automatically update as you switch between applications. Take a series of repetitive keyboard shortcuts you use for editing and perform them all at once with a single SmartSwitch press.

Assign various functions to the wheel on the fly. Effortlessly navigate your application menus and more— all without your hands ever leaving the controller. MC Pro comes equipped with default Application Sets for most DAWs, but you can create your own to speed up any task.

Make changes with a twist

MC Pro includes eight touch-sensitive rotary knobs with LED display rings that function as a SuperChannel, enabling you to control EQ, dynamics, and other DAW plug-ins on the selected channel, with keys to navigate to additional parameters if needed.

You also have an additional "Assignable Knob" that automatically picks up the current active control in your application. For example, if you move your cursor over a pan control, the knob will act as a pan control in EUCON-aware applications that support this function. You can also lock this knob to a particular function.

Transport and wheel controls

You can use the ten SmartSwitches above the trackball to act as transport controls, with multicolor displays for showing orange, or green when in play, and red when recording, or program these switches to manage any transport or sync function—in any order—to exactly match the transport layout you prefer.

You can also choose to permanently display SMPTE or MIDI time code and locate registers on the touchscreen, and add an optional external synchronizer for multiple machine control. You can even use the SmartSwitches to modify the function of the jog wheel on the fly.

http://www.avid.com/US/products/MC-Pro#Specifications

Specifications

Frame size

(H x D x W): 3.6 x 20.7 x 37.5 inches (9.2 x 52.6 x 95.3 cm)

Product tour

Select the feature you wish to learn more about, or launch the complete product tour

- MC Pro control surface
- Multiple control levels:
  - Level 1 - Keyboard and trackball
  - Level 2 - SmartSwitches
  - Level 3 HUI & Mackie control over Ethernet
  - EUCON
- Studio Monitor Express
- Studio Monitor Pro Option
- The Touchscreen
- Faders or Joysticks and Workstation Selection Switches
- The Soft Rotary Control
  Section - Plug-Ins

What's in the box

Includes:

- MC Pro control surface
- EUCON DAW control software (control up to five DAWs)
- Studio Monitor Express software

Options:

- Dual joystick panel (in lieu of the 4-fader panel)

System 5-MC

http://www.avid.com/US/products/System-5MC

What is System 5-MC?

Based on the ergonomic and powerful [System 5](#) digital console and the innovative [MC Pro](#) editing
controller, the System 5-MC mixing control surface tightly integrates with multiple DAWs, enabling you to
take deep, hands-on control of EUCON-enabled apps over the high-speed EUCON Ethernet control
protocol.

Key features

- Expand the surface to accommodate your projects with 8–48 channel strips, each with 8 touch-sensitive knobs and a motorized fader
- Program and perform complex functions with a single touch using 56 programmable LCD SmartSwitches
- Control up to four DAWs, such as Pro Tools, Logic Pro, Nuendo, and Digital Performer, over the high-speed EUCON Ethernet protocol
- Control multiple Mac and/or PC workstations through EUCON
- Easily configure the 8 knobs to control EQ, dynamics, pan, Aux sends, routing, or plug-ins
- Bring any track up to any channel strip on the surface and save it as a Layout for easy recall
- Control surround sound sources, such as a 5.1 track, from a single strip
- Get the full MC Pro controller in the center section, with twin joysticks or four additional faders
- Choose the modular frame that fits your needs (two models available)
- Mix up to 5.1 surround with Studio Monitor Pro ASIO- and Core Audio-based monitoring software, enabling you to control the surround sound monitor matrix, control room speakers, SLS, and foldback outputs
- Work with any audio and video hardware and I/O supported by your DAW application
- Customize and expand the system for your needs

System 5-MC surface details

- Expandable from 8–48 channel strips/faders
- 8 touch-sensitive rotary encoders and 100 mm touch-sensitive motorized fader per strip
- High-resolution LED metering next to each fader
- High-resolution multi-format metering at the top of each channel on the TFT display
- Integrated USB keyboard/trackball, jogwheel, twin joysticks, and touchscreen
- Channel strips are operationally compatible with standard System 5 consoles

Feature details

Take control with EUCON

With System 5-MC, you gain deep, integrated control over your favorite EUCON-enabled creative applications. EUCON carries high-resolution control information for faders, knobs, displays, and more between System 5-MC and the selected application. So you can quickly switch between multiple applications–and even workstations–at the touch of a button, with all controls and displays automatically matching the selected application....

High-resolution, high-speed control

With 8x the resolution and 250x the speed of MIDI, EUCON gives you powerful, highly responsive tactile control that feels like mixing on a professional mixing console

Work with multiple applications

Speed up modern, multi-app workflows with seamless app switching—System 5-MC instantly adapts to your current app. You can even lock parts of the surface to one app while using the rest to switch between apps—perfect for monitor and/or transport controls.

Control multiple workstations

Access any workstation running EUCON-enabled software on your extended network, with keyboard and mouse commands automatically forwarded to the selected workstation—ideal for multi-workstation workflows and facilities with machine rooms.

Future proof

Avid continues to develop EUCON, making it easy for development partners to add new features and functionality to your favorite software through updates. EUCON even supports HUI and Mackie Control protocols for even greater flexibility.

Intuitive, flexible mixing

Based on the successful design of the System 5 console, used by top facilities around the world, the System 5-MC professional mixing surface puts both editing and mixing control at your fingertips, enabling you to work faster and easier. Assign and control EQ, dynamics, pan, plug-ins, and other settings—with precision—using the eight touch-sensitive knobs on each channel strip.

Easily make volume changes with the high-quality motorized faders, with easy-to-read feedback displayed on dual high-resolution LED meters next to each fader.

You also get constant visual feedback in everything you do through the high-resolution, multiformat TFT screens at the top of the surface, which can display metering, EQ and pan settings, track names, and other parameter values. The MC Pro controller sits in the center of the console and includes 56 LCD SmartSwitches, enabling you to quickly perform complex macros with one touch. You also have two joysticks, a

jog wheel, integrated full-sized keyboard, monitoring section, and touchscreen for the ultimate in software application control. Plus, you can interchange the trackball and jog/ shuttle wheel for left or right-handed operation.

Get complete control in every strip

With every System 5-MC channel strip, you can take deep, comprehensive control over any DAW that supports EUCON. Each channel strip features:

- One long-throw, touch-sensitive, 100mm motorized fader
- Dual high-resolution LED meters (next to each fader) for levels and automation
- On, solo, automation mode, input monitoring, attention, record, and swap switches
- 8 touch-sensitive rotary controls per channel with LED display rings and 4-character designation displays—each knobset has select, on, and automation switches and automation status LEDs
- High-resolution TFT displays at the top of each channel show metering, processor graphs (for EQ and pan), routing, 12–14 character channel name designations, and status

Get instant access with a touch

Quickly access files, system setup, and program various functions from the high-resolution touchscreen, which sits just above the keyboard. The screen also shows you a permanent display of filenames, transport state, fader labels, and the main menu

You can also customize each section of the surface using the Setup button, which brings up a setup screen for that section of the surface.

The touchscreen includes the following display screens:

- Multiple workstation setup and selection
- File Management
- Track selection and management
- Flip—enables you to swap System 5-MC faders and knobs
- Soft Key setup—assign functions and keyboard commands to the SmartSwitches
- System setup and preferences
- Edit Control banks, Soft Key banks, User Sets, and Application Sets (can all be named, stored, recalled, renamed, and deleted)
- Layouts—set the faders to control different sections of a DAW, or assign any combination of tracks to the faders

Perform complex functions in a single press

Instantly perform application functions, keystroke shortcuts, and macro commands using the LCD display SmartSwitches that automatically update as you switch between applications. Take a series of repetitive keyboard shortcuts you use for editing and perform them all at once with a single SmartSwitch press. Assign various functions to the wheel on the fly.

Effortlessly navigate your application menus and more—all without your hands ever leaving the controller. System 5-MC comes equipped with default Application Sets for most DAWs, but you can modify these and create your own to speed up any task.

Make changes with a twist

The System 5-MC center section includes eight touch-sensitive rotary knobs with LED display rings that function as a SuperChannel, enabling you to control EQ, dynamics, and other DAW plug-ins on the selected channel, with keys to navigate to additional parameters if needed.

You also have an additional “Assignable Knob” that automatically picks up the current active control in your DAW

application. For example, if you move your cursor over a pan control in your EUCON-aware software, the knob will act as a pan control. You can also lock this knob to a particular function.

Transport and wheel controls

You can use the ten SmartSwitches above the trackball to act as transport controls, with multicolor displays for showing orange, or green when in play, and red when recording, or program these switches to manage any transport or sync function—in any order—to exactly match the transport layout you prefer.

You can also choose to permanently display SMPTE or MIDI time code and locate registers on the touchscreen, and add an optional external synchronizer for multiple machine control. You can even use the SmartSwitches to modify the function of the jog wheel on the fly.

http://www.avid.com/US/products/System-5MC#Tech-Info

Specifications

Frame sizes (H × D × W):

- 5-foot frame: 38.5 × 40.2 × 60 inches (97.8 × 102.1 × 152.4 cm)
- 6-foot frame: 38.5 × 40.2 × 72 inches (97.8 × 102.1 × 182.9 cm)
- 7-foot frame: 38.5 × 40.2 × 84 inches (97.8 × 102.1 × 213.4 cm)
- 8-foot frame: 38.5 × 40.2 × 96 inches (97.8 × 102.1 × 243.8 cm)
- 9-foot frame: 38.5 × 40.2 × 108 inches (97.8 × 102.1 × 274.3 cm)

Module dimensions (H × W × D):

- 13.25 × 12 × 33.5 inches (34 × 30 × 84 cm)

Product tour

Select the feature you wish to learn more about, or launch the complete product tour

- System 5-MC Control Surface

What's included

- System 5-MC control surface:
  - Master Module
  - From one to six 8-fader Channel Strip Modules
  - MC Pro editing controller with choice of twin joysticks or four additional faders
- Software
  - EUCON DAW control software (control up to five DAWs)
  - Studio Monitor Pro

DSP audio consoles

S5 Fusion

http://www.avid.com/US/products/S5-Fusion

What is S5 Fusion?

S5 Fusion is a flexible mid-size digital audio mixing console with a dedicated, expandable DSP engine and complete EUCON Hybrid control.

http://www.avid.com/US/products/S5-Fusion#Features

Key features

- Expand the ergonomic surface to suit your project scope, from 8 to 56 faders/channel strips
- Increase your processing power with up to 116 channels of dedicated DSP
- Control tracks from up to five DAWs from a single surface
- Gain deep, tactile control of Pro Tools, Logic Pro, Pyramix, Nuendo, Digital Performer, Maestro, and more
- Mix both DSP channels and DAW tracks on the surface together
- Expand or customize the modular surface and I/O for your needs
- Attain the highest sound quality and performance through professional-grade I/O and dedicated DSP
- Get more secure operation—without communication bottlenecks—with the high-speed Ethernet connection
- Accelerate your mixing with up to 240 snapshot recalls of all console settings

- Customize the surface with up to 48 Layouts for different surface configurations
- Easily control routing using the PatchNet digital router/patchbay software (up to 768 x 768 signal paths)
- Mix multichannel audio, with surround panning and monitoring as standard
- Gain easy access to multiformat sources with the Spill function
- Use any single fader as a multiformat source, up to 7.1
- Work more easily with picture, with dynamic automation of most parameters to time code
- Conform automation to picture with the Conform utility
- Get comprehensive machine control with Soundmaster, Colin Broad, Tamura, and JSK

S5 Fusion surface details

- Expandable from 8–56 faders (in 8-fader modules)
- 8 touch-sensitive knobs and a 100 mm motorized fader per channel strip
- High-resolution LED meters next to each fader
- TFT high-resolution displays per channel for metering (up to 7.1), EQ, dynamics and pan graphs, and routing
- Master module
- Module with display for eMix software and twin joysticks
- Full surround sound monitor matrix with analog monitor outputs
- 256 x 256 MADI channels (@48 kHz; expandable to 512 x 512)
- Available in a 5-, 7-, or 9-foot frame

Feature details

Accelerate your mixing

Though it resembles and functions like a traditional analog surface, the S5 Fusion control surface gives you more power and flexibility to mix faster and easier than ever. You can customize the surface for your project needs—from 8–56 channel strips. Each channel strip includes a multiformat, motorized fader, as well as eight touch-sensitive knobs for EQ, filter, compressor, expander/gate, Aux sends, and pan control, that you can also use to control DAW functions, including adjusting TDM, VST, and Audio Units plug-in parameters. Gain complete control of your mix using the master module and one that houses a display for the eMix software and twin joysticks. And with the high-resolution screens, you have instant visual feedback on your metering, track info, routing, and more.

Gain custom control

Bring what's important closer to you. With Layouts, you can quickly access what you need by saving the position of sources on the surface at any given time for later recall. Always have the most important sources within easy reach by saving different Layouts—whether you want to store/recall settings across the entire desk or only within certain strips. And with Control Groups, you can control any number of faders from a single strip

Automate with precision

As S5 Fusion is a fully digital console, it's designed with Total Automation for high-precision mixing. You can dynamically automate changes to almost every parameter on the console to time code, including volumes, EQ, pans, Aux sends, dynamics, processor in/out, and fader on/off... With motorized, touch-sensitive controls, you can write changes the minute you touch a fader or knob, with all automation moves displayed on the unique illuminated displays during playback, and automation statuses displayed on the dedicated LEDs. Each switch

that can be automated has its own automation punch key. Use the dedicated automation keys in the center of the console to select objects for automation and the object status. You can write automation in small discrete sections to handle detailed post work, or as continuous moves throughout the length of your project.

Jump to different mix states

Freely experiment without fear of commitment, or isolate specific channels for easier fine-tuning. With SnapShot Recall, you can store all current console settings as a SnapShot for recall at any time, making it easy to jump to any past mixing state of one or multiple channels... You can choose and later edit the parameters in any given SnapShot—from saving every setting across all channels, a single channel, or maybe just the EQ or pan settings on a single channel—and name them for easy identification. You can save up to 240 SnapShots per Title (project), all of which will be accessible whenever you reload that Title.

Powered by DSP

S5 Fusion is powered by the SC264D studio computer, which provides machine control and dedicated, expandable DSP channels to the console—each with EQ and dynamics processing, delay, and surround panning to multiformat mix, group, and Aux busses...

Running eMix software, you can set up and customize the system, manage files, and perform diagnostics from the console. It also includes PatchNet, a powerful digital patching system that enables you to route all console inputs and outputs—unlike a traditional patchbay, you can store and recall every single patch that you make. Add additional DSP cards to the computer to increase your channel and bus counts—all of which you can reconfigure to suit your needs using eMix.

Each S5 Fusion channel features:

- Two inputs, which may be fed from analog or digital sources (using appropriate converters)
- Phase reverse
- Gain trim
- Delay (up to 2 seconds)
- Insert send and return
- 4-band fully parametric EQ
- Two filters
- Dynamics, including compressor/expander/gate with hysteresis, key input, and side chain filter
- Touch-sensitive motorized fader
- Multiformat panning to group and mix busses
- Up to 32 mix busses, 24 group busses, and 16 Aux send busses
- Solo button (APL, PFL, SIP)
- Two direct outputs (pre-fader and post-fader)

If you connect a mic preamp to the channel, you can access its additional controls from the surface (the following is an example if you connect the ML530 remote mic/line interface):

- Input impedance—hi/lo
- Phantom power
- Hi-pass filter
- Analog input gain

Take control with EUCON

What elevates S5 Fusion above other mixing systems is EUCON Hybrid. With the EUCON control protocol, you can take deep, tightly integrated tactile control of an application over high-speed Ethernet—Pro Tools 9, Logic Pro, Pyramix, Nuendo, Digital Performer, and other DAWs all directly support EUCON...

With EUCON Hybrid, included with S5 Fusion, you get extended console control capabilities—beyond the dedicated DSP cards—to the outside world, bringing DAW tracks from multiple workstations onto the console surface for mixing.

You can select, place, and control tracks on the S5 Fusion surface from any DAW running the EUCON Client Application on your network. Position tracks anywhere you want on the surface. You can even place multiple tracks from separate DAWs in any order on the surface, simultaneously, next to the S5 Fusion DSP channels. You can then save these channel placements as Layouts for easy access and organization —for example, you can have one Layout for DSP channels, one for Pro Tools, and one with combinations from multiple DAWs. This greatly extends the capability of the console, enabling you to access DAW tracks that would otherwise be available only as traditional playback sources. With EUCON Hybrid, it's now possible to have direct, high-speed access to any of these tracks, their plug-ins, and metering.

Connect to the world

Route and patch audio using industry-standard MADI connectivity, a very stable and robust AES-sanctioned format that delivers up to 64 digital audio channels (at 24-bit, 48kHz) along a single coaxial cable.

S5 Fusion includes an I/O interface that provides four MADI inputs and outputs (256 x 256 audio channels), and can be expanded to support up to 512 audio I/O channels. Because the system is modular, you can customize your I/O with a full range of high-quality Avid converters— both analog and digital—to meet your needs now and in the future.

S5 Fusion includes an I/O interface that provides four MADI inputs and outputs (256 x 256 audio channels), and can be expanded to support up to 512 audio I/O channels. Because the system is modular, you can customize your I/O with a full range of high-quality Avid converters— both analog and digital—to meet your needs now and in the future.

Specifications

Frame sizes (H x D x W):

38.5 x 40.2 inches (97.8 x 102.1 cm) in 5-foot (152.4 cm), 7-foot (213.4 cm), and 9-foot (274.3 cm) frames

Product tour

Select the feature you wish to learn more about, or launch the complete product tour

- The Control Modules
- S5 Fusion - 5 Module Frame
- Channels
- Strips
- New Touch-Sensitive Knobs
- Inputs
- Channel Process Order
- Dynamics
- Bus Routing and Aux Sends
- Pan Controls
- Meters
- CM401-T Master Module
- Master Facilities
- Master Facilities (2)
- Master Facilities (3)
- SnapShot Recall™
- Fader and Knob Automation Modes
- Film Monitor Panel Option
- EUCON Hybrid
- EUCON Hybrid (2)

What's included

S5 Fusion control surface:

- Master Module (CM401)
- From one to seven 8-fader Channel Strip Modules (CM408)
- Choice of module options—Center Section (CM402), Blank Module (CM409), Film Monitoring Panel (CM403), Video display with joystick and PEC/Dir option (CM411), Producers Panel (CM424)
- Choice of frame size, up to 9 feet (frame style: lightweight)

Available mixer models:

- Audio Post Mixer—one card (54 channels, 20 mix busses, 8 group busses, # Aux busses) up to two cards (up to 128 channels, 48 mix busses, 24 group busses, 24 Aux busses)
- Music Mixer—one card (54 channels, 12 mix busses, 16 group busses, # Aux busses) up to two cards (up to 116 channels, 12 mix busses, 24 group busses, 16 Aux busses)

SC264 Studio Computer:

- One or two DSP SP663 cards
- eMix file management and PatchNet software
- Full mix automation software
- EUCON DAW control software (control up to five DAWs)
- RS422 and MMC machine control

I/O and monitoring:

- 4–8 MADI ins and 4–8 MADI outs (maximum 512 x 512 channels @ 48 kHz); 1 MADI out used by MA703 for monitoring
- MA703 MADI to analog converter for analog monitor outputs
- MC524 Monitor Controller Interface

System 5

http://www.avid.com/US/products/System-5MC

What is System 5?

Get high-performance audio mixing in a standalone digital console specifically designed for the ultra-demanding worlds of professional music and audio post production. With System 5, you have power on demand to mix the biggest feature films and album projects in an advanced system that represents the pinnacle of digital audio console design, with a powerful DSP SuperCore engine, industry-leading ergonomics, and deep DAW control with the EUCON Hybrid option.

http://www.avid.com/US/products/System-5MC#Features

Key features

- Expandable DSP SuperCore accommodates over 450 audio channels, each fully resourced with EQ, dynamics, Aux sends, panning, and routing
- Customize and expand the modular surface and I/O for your needs —up to 3-operator configuration
- Attain the highest sound quality and performance through professional-grade I/O and dedicated DSP
- Accelerate your mixing with up to 240 SnapShot Recalls of all console settings
- Customize the surface with up to 48 Layouts for different surface configurations

- Get more secure operation—without communication bottlenecks—with the high-speedEthernet connection...
- Easily control routing using the PatchNet digital router/patchbay
- Mix multichannel audio, with surround panning and monitoring as standard
- Gain easy access to multiformat sources with the Spill function
- Work more easily with picture, with dynamic automation of most parameters to timecode
- Conform automation to picture with the Conform utility
- Get comprehensive machine control with Soundmaster, Colin Broad, Tamura, and JSK
- Control up to five DAWs with the EUCON Hybrid option

System 5 surface details

- Expandable to 112 channel strips/faders
- 8 touch-sensitive rotary encoders and 100 mm touch-sensitive motorized fader per strip
- Accommodate up to 450 channels, with 4-band EQ, dynamics, and two filters per channel
- High-resolution LED meters next to each fader
- TFT high-resolution displays per channel for metering (up to 7.1), EQ, dynamics and pan graphs, and routing
- Create up to 96 mix busses, 48 group busses, 24 Aux sends, and 72 external inputs

Feature details

Accelerate your mixing

Much like any audio console, the System 5 features channel strips and a center section for master facilities. However, you can configure the surface modules for any audio post or music mixing application. No audio flows through the control surface, as the audio electronics are housed remotely, enabling you to customize your I/O and place and rearrange modules in any order. Each module is self-contained with a high-speed Ethernet connection for responsive control.

You also get constant visual feedback in everything you do, as each channel features stereo LED metering next to each fader, plus high-resolution multi-format TFT screens to view metering, sources, channels, auxes, groups, and gain reduction. The master module provides you with multiformat metering for the main busses and monitors, while the submaster module offers eight additional programmable meter displays, which you can customize and save as presets.

Each channel strip includes a multiformat, motorized fader and eight touch-sensitive knobs for EQ, filter, compressor, expander/gate, Aux sends, and pan control. If you're using the EUCON Hybrid option, you can also use the faders and knobs to control DAW functions, including adjusting TDM, VST, and Audio Units plug-in parameters.

Gain custom control

Bring what's important closer to you. With Layouts, you can quickly access what you need by saving the position of sources on the surface at any given time for later recall. Always have the most important sources within easy reach by saving different Layouts—whether you want to store/recall settings across the entire desk or only within certain strips. And with Control Groups, you can control any number of faders from a single strip.

Jump to different mix states

Freely experiment without fear of commitment, or isolate specific channels for easier fine-tuning. With SnapShot Recall, you can store all current console settings as a SnapShot for recall at any time, making it easy to jump to any past mixing state of one or multiple channels... You can choose and later edit the parameters in any given SnapShot—from saving every setting across all channels, a single channel, or maybe just the EQ or pan settings on a single channel—and name them for easy identification. You can save up to 240 SnapShots per Title (project), all of which will be accessible whenever you reload that Title.

Automate for precision

As System 5 is a fully digital console, it's designed with Total Automation for high-precision mixing. You can dynamically automate changes to almost every parameter on the console to time code, including volumes, EQ, pans, Aux sends, dynamics, processor in/out, and fader on/off. With motorized, touch-sensitive controls, you can write changes the minute you touch a fader or knob, with all automation moves displayed on the unique illuminated displays during playback, and automation statuses displayed on the dedicated LEDs. Each switch that can be automated has its own automation punch key. Use the dedicated automation keys in the center of the console to select objects for automation and the object status. You can write automation in small discrete sections to handle detailed post work, or as continuous moves throughout the length of your project.

Powered by DSP

System 5 is powered by the lightweight and compact DSP SuperCore—the system's primary signal-processing engine and router. Comprised of a system board and up to eight plug-in SP662 DSP cards, the SuperCore gives you more than enough DSP horsepower, system functionality, and reliability to satisfy your most demanding music and post applications.

The SC263 Studio Computer runs eMix software, enabling you to easily set up and customize the system, manage files, and perform diagnostics. It also includes PatchNet, a powerful digital patching system that enables you to quickly route all console inputs and outputs — unlike a traditional patchbay, you can store and recall every single patch that you make...

Each System 5 channel features:

- Two inputs, which may be fed from analog or digital sources (using appropriate converters)
- Phase reverse
- Gain trim
- Delay (up to 2 seconds)
- Insert send and return
- 4-band fully parametric EQ
- Two filters
- Dynamics, including compressor/expander/gate with hysteresis, key input, and side chain filter
- Touch-sensitive motorized fader
- Multiformat panning to group and mix busses
- Up to 32 mix busses, 24 group busses, and 16 Aux send busses
- Solo button (APL, PFL, SIP)
- Two direct outputs (pre-fader and post-fader)

If you connect a mic preamp to the channel, these additional controls are available (with the ML530 remote mic/line interface):

- Input impedance—hi/lo
- Phantom power
- Hi-pass filter
- Analog input gain

Take control with EUCON

The EUCON Hybrid option for System 5 extends the control capabilities of the console—beyond its dedicated DSP Core—to the outside world, enabling you to bring audio tracks from multiple DAWs to the console surface for mixing. With the EUCON control protocol, you can take deep, tightly integrated tactile control of an application over high-speed Ethernet—Pro Tools 9, Logic Pro, Pyramix, Nuendo, Digital Performer, and other DAWs all directly support EUCON. You can select, place, and control tracks on the System 5 surface from any DAW running the EUCON Client Application on your network. Position tracks anywhere you want on the surface. You can even place multiple tracks from separate DAWs, in any order on the surface, simultaneously next to System 5 DSP channels. You can then save these placements as Layouts for easy access and organization—for example, you can have one Layout for DSP channels, one for Pro Tools, and one with combinations from multiple DAWs. This greatly extends the capability of the console, enabling you to access DAW tracks that would otherwise be available only as traditional playback sources. With EUCON Hybrid, it's now possible to have direct, high-speed access to any of these tracks, their plug-ins, and metering.

Connect to the world

Route and patch audio using industry-standard MADI connectivity, a very stable and robust AES-sanctioned format that delivers up to 64 channels of digital audio (at 24-bit, 48 kHz) along a single coaxial cable. You can also customize your I/O to interface with analog gear and other digital formats, such as AES/EBU. Avid offers a full range of high-quality converters that can be configured in multichannel, 3RU 19" rack mounting cases, making it easy to scale the I/O to meet your needs now and in the future.

Specifications

Frame sizes (H × D × W):

- 5-foot frame: 38.5 × 40.2 × 60 inches (97.8 × 102.1 × 152.4 cm)
- 6-foot frame: 38.5 × 40.2 × 72 inches (97.8 × 102.1 × 182.9 cm)
- 7-foot frame: 38.5 × 40.2 × 84 inches (97.8 × 102.1 × 213.4 cm)
- 8-foot frame: 38.5 × 40.2 × 96 inches (97.8 × 102.1 × 243.8 cm)
- 9-foot frame: 38.5 × 40.2 × 108 inches (97.8 × 102.1 × 274.3 cm)

Module dimensions (H × W × D):

- 13.25 × 12 × 33.5 inches (34 × 30 × 84 cm)

Product tour

Select the feature you wish to learn more about, or launch the complete product tour

- System 5 Block Diagram
- Channels
- Strips
- Inputs
- Channel Process Order
- EQ & Filters
- Dynamics
- Bus Routing & Aux Sends
- Pan Controls
- Channel Meter Display
- Master Facilities
- Expanded Central Control
- Bus Masters
- Master Meters

What's included

System 5 console:

- Master Module (CM401)
- From one to 14 8-fader Channel Strip Modules (CM408)
- Choice of module options—Center Section (CM402), Film Monitoring Panel (CM403), Video display with joystick and PEC/Dir option (CM411), Producers Panel (CM424)

- Choice of frame size, up to 24 feet (frame styles: lightweight or heavy-duty)

Available mixer models:

- Audio Post Mixer—one card (54 channels, 20 mix busses, 8 group busses) up to eight cards (up to 454 channels, 96 mix busses, 24 group busses, Aux busses)
- Music Mixer—one card (54 channels, 12 mix busses, 16 group busses) up to eight cards (up to 324 channels, 48 mix busses, 48 group busses, 24 Aux busses)

SC264 Studio Computer:

- eMix file management and PatchNet software
- Full mix automation software
- RS422 and MMC machine control

DSP Core (DF66 or DF70):

- 1–8 DSP SP663 cards

I/O and monitoring:

- 4–32 MADI ins and 4–32 MADI outs (maximum 2,048 × 2,048 channels @ 48 kHz); 1 MADI out used by MA703 for monitoring
- MA703 MADI to analog converter for analog monitor outputs
- MC524 Monitor Controller Interface

DSP Broadcast Consoles

Max Air

Overview

With HD standards being adopted by TV stations and homes throughout the world, audiences are demanding a higher quality, surround sound experience. Broadcast audio

operators also have to handle increasingly complex productions with ease—from news to sports to live show production, in the studio or on the road, often with a very small space to work in. For these reasons, modern broadcasters look to the Max Air, a standalone, compact digital audio mixing system designed to handle any challenge—at an affordable price point. Based on the proven technology of the System 5-B, Max Air shares the same DSP Core, I/O, integration with facility routers, and system redundancy—all controlled from an easy-to-operate, ergonomic control surface.

Key Features

- Get easy access to functions using the central touchscreen, with high-res metering

- Control 48 multiformat Masters (configurable as stereo to 7.1) on any channel strip

- Get precision control with four knobs and a motorized 100mm fader per channel

- Take control of your mix with Snapshot Recall, GPI, and Live Events System

- Configure and recall custom surface assignments using Layouts

- Get quick access to multiformat sources and control groups with user-definable Spill zones

- Control your routing with confidence utilizing the N-1 mix-minus bus

- Expand and customize the modular surface and I/O for your needs, including a fiber remote mic solution

- Bring important channels to the center Master Module, with SuperChannel and eight Assignable faders

- Integrate with Ross OverDrive systems and facility routers

- Mix multichannel audio, up to 7.1 surround

- Tackle large productions with up to 16 MADI ins and outs (1,024 x 1,024 channels @48KHz)

- Get 100% realiability with the completely redundant DSP engine, including channels, MADI router, and MADI I/O

http://www.avid.com/US/products/Avid-Max-Air/features

Features

- Max Air surface details:
    - Expandable up to 48 multiformat fader strips
    - Four knobs and a motorized 100mm fader per channel
    - High-resolution central touchscreen for metering and quick access to functions

- ◦ Create up to 32 mix busses (up to 5.1 wide), 16 Aux sends, and 24 group/clean feed busses
- Gain peace of mind with award-winning technology (based on the System 5), proven ruggedness, and multifaceted control
- Get proven, high-speed performance with the distributed Ethernet architecture
- 1,024 analog or digital sources to 1,024 destinations
- Work with 160 simultaneous mono, stereo, split stereo, analog, or direct MADI channels
- Ensure better sound with the N-1 mix-minus output from each channel
- Get full processing across all 160 primary signal paths and major busses
- Scale the local or remote I/O for your needs, with copper or fiber connections
- Introduce up to 2 seconds of delay per channel
- Mix surround sound, with panning and monitoring as standard
- Accelerate your mixing with SnapShot Recall of all console settings
- Integrate console scribble strips to the Image Video Tally TSI-1000 and have them act as UMDs
- Gain complete ease of use through the intuitive interface
- Competitively priced for the local and international TV market

Get faster mixing in a compact surface

Set up shows and mixes quickly, as Max Air is easy to learn and fast to operate, with controls and displays that follow traditional conventions and layout, all in a compact design. Much like any audio console, the Max Air features channel strips, a center section for master facilities, and a central touchscreen that simplifies master functions such as patching. All 160 channels have exactly the same features, which greatly simplifies routing and operation. And with SnapShot Recall of all console parameters, you get fast turnaround between different shows and accurate recall for continuity from one week to the next.

Powered by DSP

Max Air features the lightweight and compact DSP SuperCore—a signal-processing engine and router that gives you more than enough DSP horsepower, system functionality, and reliability to satisfy your most demanding broadcast applications. And to ensure a fail-safe backup, each Max Air includes two SuperCores for 100% secure redundant operation. To connect sources to the DSP core, the system includes 16 MADI inputs and

outputs, each capable of up to 64 inputs (1,024 x 1,024 channels at 48 kHz). You can also customize your I/O with a range of high-quality analog, AES/EBU, and direct digital format converters for connecting the outside world.

Streamline broadcast routing

Set up shows quickly with PatchNet, a powerful digital audio patching system application that's simple to use right from the central touchscreen. As a faster, easier, and more flexible alternative to a traditional analog patchbay, PatchNet enables you to save and recall setups for each show. It also provides a basic setup, which includes all source and destination designations, to use as a starting point for new shows. You can label each MADI source and destination audio stream in the DSP SuperCore, as well as each audio source within a MADI stream, to keep things organized. All console inputs and outputs also appear in PatchNet for easy patching.

Keep the show running with secure changeover

All audio signals are distributed to both the primary and backup DSP SuperCores for complete redundancy of all MADI I/O, router, and DSP processing. If the diagnostics system detects a fault, it'll notify the operator, who's given the option to changeover the system. Primary and backup systems work as one contiguous DSP core, and the changeover function switches all I/O over to the backup system seamlessly.

Connect to the world

You can customize Max Air with as many inputs and outputs as you need by simply adding modular I/O cards to the interface chassis. Choose from a wide range of multi-channel digital and analog convert-ers, digital format converters with sample rate conversion, and remote mic/line input amps. Cabling is simplified, as you can place converters next to the equip-ment with which they interface. This modularity enables facilities to easily change the balance of analog and digital I/O as it makes the move to a fully digital world.

http://www.avid.com/US/products/Avid-Max-Air/tour

Product Tour

Select the feature you wish to learn more about, or launch the complete product tour.

1. Going Digital - More Features, Lower Price
2. Be Sure - Reliability

System 5-B

http://www.avid.com/US/products/System-5B

Overview

With new HD standards being adopted by TV stations and homes throughout the world, audiences are demanding a higher quality, surround sound experience. Broadcast audio operators also have to handle increasingly complex productions with ease—from news to sports to live show production, in the studio or on the road, with a zero fault tolerance. That's why modern broadcasters look to the System 5-B—a standalone, high-performance digital audio mixing system that represents the pinnacle of broadcast digital audio console design to handle any challenge.

Get power on demand to mix the biggest television shows and live events with a powerful DSP Super Core engine, industry leading ergonomics, and flexible modular I/O options. Gain rich visual feedback from LED color coded rotary controls, as well as high resolution TFT's for metering, routing, processing, and more. And with 100% redundancy, you get peace of mind during every second of your broadcast.

Key Features

- Handle the largest productions with the DSP SuperCore engine (expandable to over 450 channels)

- Expand and customize the modular surface and I/O for your needs

- Control 48 multiformat Masters (configurable as stereo to 7.1) on any channel strip

- Get precision control with eight touch-sensitive knobs and a motorized 100mm fader per channel

- Setup and control your mixes with SnapShot Recall and GPI for live events

- Configure and recall custom surface assignments using Layouts

- Get quick access to multiformat sources and control groups with user-definable Spill zones

- Enable hassle free feeds with the N-1 mix-minus bus

- View metering, routing, panning, and EQ/dynamics visual feedback on high-resolution TFT displays

- Integrate with Ross OverDrive systems and facility routers

- Mix multichannel audio, up to 7.1 surround

- Tackle the largest productions with up to 32 MADI ins and outs (2,048 x 2,048 channels @48 kHz)

- Get 100% reliability with the completely redundant DSP engine, including channels, MADI router, and MADI I/O

http://www.avid.com/US/products/System-5B/features

System 5-B Features

- System 5-B surface details:
  - Accommodate up to 450 modular channels, with 4-band EQ, dynamics, and two filters per channel
  - 8 touch-sensitive knobs and a 100mm motorized fader per channel strip
  - High-resolution stereo LED meters next to each fader

- ◦ TFT high-resolution displays per channel for metering (up to 7.1), EQ, dynamics and pan graphs, and routing
- ◦ Create up to 96 mix busses, 48 group busses, 24 Aux sends, and 72 external inputs
- Gain complete ease of use through the intuitive interface
- Expand or customize the modular surface and I/O for your needs
- Get constant visual feedback though high-resolution TFT displays
- Attain the highest sound quality and performance through professional-grade I/O and dedicated DSP
- Get more secure operation—without communication bottlenecks—with the high-speed Ethernet connection
- Accelerate your mixing with up to 240 SnapShot Recalls of all console settings
- Customize the surface with up to 48 Layouts for different configurations
- Easily control routing using the PatchNet digital router/patchbay
- Mix multichannel audio, with surround panning and monitoring as standard
- Gain easy access to multiformat sources with the Spill function
- Integrate console scribble strips to the Image Video Tally TSI-1000 and have them act as UMDs
- Have a fail-safe backup with redundant power supplies
- Option: Add dynamic mix automation and machine control for working with prerecorded material
- Option: Control multiple DAWs (such as Pro Tools, Nuendo, Logic, and more) with EUCON Hybrid

Intuitive, flexible mixing

Much like any audio console, the System 5-B features channel strips and a center section for master facilities. However, no audio flows through the control surface, as the audio electronics are housed remotely, enabling you to customize your I/O and place and rearrange modules in any order. Each module is self-contained with dual redundant power supplies and a high-speed Ethernet connection for responsive control. In addition, you can scale the console with 8-fader modules for your needs. If a fader module fails, you can quickly use other modules to control those sources—without any loss of audio.

You also get constant visual feedback in everything you do, as each channel features stereo LED metering next to each fader, plus high-resolution, multiformat TFT screens to view metering, sources, channels, auxes, groups, and gain reduction. The master module

provides you with multiformat metering for the main busses and monitors, while the submaster module offers eight additional programmable meter displays, which you can customize and save as presets.

Powered by DSP

System 5-B is powered by the lightweight and compact DSP SuperCore—a signal-processing engine and router that gives you more than enough DSP horsepower, system functionality, and reliability to satisfy your most demanding broadcast applications. With it, you can easily handle 24-bit, 48 kHz or 96 kHz audio productions, with up to 40-bit floating point processing—or even higher sample rates of up to 384 kHz. A second backup DSP SuperCore with changeover ensures 100% redundancy for complete peace of mind.

The SC263 Studio Computer runs the eMix software, enabling you to easily set up and customize the system, manage files, and perform diagnostics. It also includes PatchNet, a powerful digital patching system that enables you to quickly route all console inputs and outputs—unlike a traditional patchbay, you can store and recall every single patch that you make. It also includes twin drives set up as a RAID array, giving you redundant storage for all data.

Customize the I/O for your needs

You can customize System 5-B with as many inputs and outputs as you need by simply adding modular I/O cards to the interface chassis. Choose from a wide range of multichannel digital and analog converters, digital format converters with sample rate conversion, and remote mic/line input amps. Cabling is simplified, as you can place converters next to the equipment with which they interface. This modularity enables facilities to easily change the balance of analog and digital I/O as it makes the move to a fully digital world.

Take Control with EUCON

The EUCON Hybrid option for System 5-B extends the control capabilities of the console—beyond its dedicated DSP Core—to the outside world, enabling you to bring audio tracks from multiple DAWs to the console surface for mixing. With the EUCON control protocol, you can take deep, tightly integrated tactile control of an application over high-speed Ethernet—Pro Tools 9, Logic Pro, Pyramix, Nuendo, Digital Performer, and other DAWs all directly support EUCON.

You can select, place, and control tracks on the System 5-B surface from any DAW running the EUCON Client Application on your network. Position tracks anywhere you want on the surface. You can even place multiple tracks from separate DAWs in any order on the surface simultaneously next to System 5-B DSP channels. You can then save these

placements as Layouts for easy access and organization—for example, you can have one Layout for DSP channels, one for Pro Tools, and one with combinations from multiple DAWs. This greatly extends the capability of the console, enabling you to access DAW tracks that would otherwise be available only as traditional playback sources. With EUCON Hybrid, it's now possible to have direct, high-speed access to any of these tracks, their plug-ins, and metering.

http://www.avid.com/US/products/System-5B/tour

Product Tour

Select the feature you wish to learn more about, or launch the complete product tour.

1. System 5-B Block Diagram
2. Channels
3. Strips
4. Inputs
5. Channel Process Order
6. EQ & Filters
7. Dynamics
8. Bus Routing & Aux Sends
9. Pan Controls
10. Channel Meter Display
11. Master Facilities
12. Expanded Central Control
13. Bus Masters
14. Master Meters
15. Solo
16. Monitoring
17. Monitor Source Selection
18. Monitor Output Control
19. Communications Facilities
20. Quick Access Panel
21. Control Surface Displays
22. Patching - PatchNet