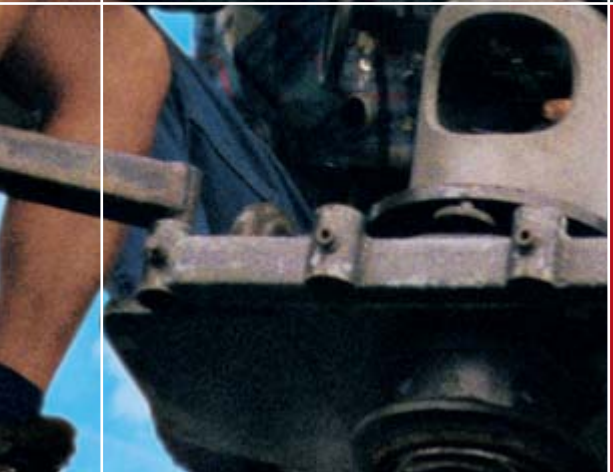




Avid Symphony Nitris

Avid® Symphony™ Nitris® combines the legendary elegance of the Symphony finishing toolset with the groundbreaking real-time performance of Avid Nitris hardware. Together, they bring the power and productivity of Avid Total Conform to high-profile HD and SD projects. Accelerate your workflow with high-velocity HD finishing and end-to-end real-time HD collaboration.



Avid Symphony Nitris The power of HD Total Conform



In high-profile film and video finishing, reputation is everything. Editors, producers, and production managers must always balance quality and speed; both are equally critical to building and maintaining a growing business. Avid Symphony Nitris systems give professionals the solution they need for faster turnarounds against tight deadlines—while delivering the highest-quality product possible.

Symphony Nitris systems eliminate the need to recreate upstream editorial work done on Media Composer® and Avid Xpress® editing systems. Every cut, effect, title, and graphic is automatically re-created in high definition—as uncompressed

HD or Avid DNxHD® media—so you can focus your resources on finishing. And the processing power of the Avid Nitris Digital Nonlinear Accelerator™ hardware offers real-time effects and color correction in 10-bit HD, as well as real-time down-converting to SD versions, so you and your clients don't have to wait for results.

Interactive SpectraGraph™ technology provides instant previews of 16-bit SpectraMatte™ chroma keys for perfect results.



Enhanced quality, greater opportunities with Symphony finishing tools

The proven Avid Symphony finishing toolset is the gold standard for quality and conform. Production managers will appreciate the flexibility of having a single unified interface and data model across the entire workflow—from concept to completion.

Real-time primary and secondary color correction lets you keep more work in-house, for greater creative control and increased business opportunities. Motion tracking, image stabilization, scratch removal, and 10-bit titling are among the many tools available to editors, and hardware-accelerated real-time 16-bit SpectraMatte chroma keying offers stunning results—fast. And when you're finished, Universal Mastering lets you deliver to multiple formats—NTSC (4:3 and 16:9) and PAL (4:3, 14:9, and 16:9)—with point-and-click ease.

Experience a new level of real-time performance

Time is tight, and the client can't wait while you render before you output to tape. Symphony Nitris systems feature unmatched hardware-accelerated 10-bit HD and SD performance for real-time results—including effects and composites—when you need them most. Uncompressed HD and SD, Avid DNxHD, Avid JFIF and ABVB, and a range of DV and IMX media are all supported in the same timeline, for incredible multi-format flexibility and the ability to take on a wider range of projects. Combine the power of Avid Nitris processing with the efficiency of Avid DNxHD encoding for unprecedented HD productivity and real-time collaboration over Avid Unity™ media networks.

Streamline your workflow

The family of high-bandwidth Avid Unity media networks enables simultaneous file sharing between Symphony Nitris and Media Composer systems and scales from boutique to enterprise environments. High-efficiency Avid DNxHD encoding shatters the barriers to networked HD

production, delivering mastering-quality 10-bit HD images at SD file sizes. And only Avid can offer Avid Interplay™: powerful media asset management, content creation, and administration tools for post and broadcast.

Product Highlights

Video I/O

- 10-bit SMPTE 292M SDI high-definition video I/O (one input, two outputs)
- HD Component YPbPr or RGB Output
- HD XVGA Monitor Output - use any standard computer monitor for low-cost HD monitoring
- 10-bit SMPTE 259M SDI standard-definition video I/O (one input, two outputs)
- Analog standard definition video I/O
 - Component YPbPr, S-Video, and Composite Inputs
 - Component YPbPr, S-Video, Composite (2) Outputs
- Uncompressed and compressed HD formats:
 - 1080i at 59.94, 50 Hz
 - 1080 PsF at 29.97, 25, 24, 23.976 Hz
 - 720p at 59.94, 50 and 23.976 Hz
- Real-time mastering-quality Avid DNxHD encoding at 145 Mbit/sec at 1080i 59.94 (8-bit 4:2:2) and 220 Mbit/sec at 1080i 59.94 (10-bit and 8-bit 4:2:2)
- Real-time offline-quality Avid DNxHD encoding at 36 Mbit/sec at 1080p 23.976, 24, 25 (8-bit 4:2:2)
- Real-time uncompressed PAL and NTSC ITU-R 601 formats
- Real-time DV25, DV50, and MPEG IMX standard definition formats over baseband connections
- Ingest of proxy and hi-res XDCAM media with write-back to disc functionality
- Panasonic P2 import and write-back functionality
- HD Tri-level sync and standard definition sync reference inputs
- HD, NTSC and PAL support on same system without reformatting drives
- Streaming capture and on-the-fly logging
- Assembly insert mode for output
- 16:9 anamorphic media support
- Sony RS-422 and RS-232 machine control; additional support for VISCA, LANC, Panasonic and JVC Protocols
- Windows Media HD and SD encoding

Audio I/O

- 8 channels of 24-bit, 96 kHz digital audio input and output
- Up to 16 streams of simultaneous 24-bit 96 kHz audio playback
- 8-channel AES/EBU digital audio I/O
- S/PDIF Digital audio I/O
- 8-channel XLR balanced audio I/O
- Dual audio monitor outputs
- Audio sampling at numerous rates including 96 kHz, 48 kHz, 44.1 kHz and 32 kHz

Software features

- 10-bit support (capture, edit, effects, output SD and HD)
- Flexible codec library to support DV, IMX, SD, and HD in a single timeline
- DVCPRO HD and DVCPRO 50 support
- Powerful real-time architecture allows up to 8 streams of uncompressed SD video
- DI offline capabilities for file-based workflows
- AVX™ 2 support for robust plug-ins
- Multiprocessor optimized

Editing features

- HD and SD Universal Mastering
- ScriptSync™ automated text and media synchronization for script-based editing
- Mixable resolutions in timeline
- Real-time Multicam (up to 9 streams SD, up to 4 streams mastering-quality Avid DNxHD, up to 8 streams offline-quality Avid DNxHD)
- Compatible with ABVB AVRs and Meridien™ JFIF resolutions
- Media consolidate and transcode between resolutions
- 24 video and audio tracks (unlimited video layers via nesting)
- Full Academy Award® winning Film Composer® toolset
- Uncompressed effects independent of clip resolution
- Real-time equal power audio dissolves
- 4:3 and 16:9 support
- PAL 24p and 25p
- Video Archive™
- Frame Chase™ Editing (Avid Interplay required)
- 23.976, 24, and film editing

Digital video effects and compositing

- Real-time customizable 3D effects, including Warp, Picture-in-Picture, Corner Pinning, Shapes, Video Titles
- Real-time 2D effects, including Dissolves, Superimposition, Resize, Flips, Flops, Wipes, Conceals, Squeezes, Masks, and Picture-in-Picture
- Real-time Moving Mattes and animated titles
- Real-time Chroma and Luma keys
- Real-time full-motion alpha keying
- Real-time blurs
- Real-time Reformat tools for aspect ratio management
- Real-time SpectraMatte high quality keyer
- Nondestructive compositing on unlimited layers
- Customizable rampable motion effects UI including FluidMotion™
- FluidFilm for film look in 50i and 60i material
- Supports all AVX 1.5 & AVX 2.0 plug-ins including third party real-time plug-ins
- ExpertRender™ reduces render time for complex layering before real-time layout
- Intraframe™ Paint, AniMatte™, Scratch removal
- Pan & Zoom creates video from high-res stills
- Motion tracking and stabilization
- Native 10-bit Boris Continuum Complete effects and filters
- Optional Avid Studio Toolkit

10-bit color correction

- Real-time professional-level Primary and Secondary color correction tools
- One Step AutoCorrect
- Patented NaturalMatch™ for automated scene to scene balancing
- Real-time keyframeable color effects
- Three-monitor interface for in context color correction
- ChromaCurve™ and ChromaGraph display
- Advanced Waveform and Vectorscope monitors

Product Highlights (continued)

Integrated titling and graphics

- Real-time uncompressed graphics and titles
- 2D and 3D titling including Marquee®
- Rolling and crawling titles
- User-savable title style sheets

Streamlined interoperability and workflow

- Total Conform of bins, sequences, edits, composites, audio settings, effects, and Avid media with Avid Xpress, Media Composer, Film Composer, and Symphony systems
- Advanced conform with Avid DS Nitris systems with AFE
- AAF import/export
- MXF or OMF® native media
- Windows Media HD and SD encoding
- BWF audio support with metadata
- Longitudinal Time Code (LTC) output
- Photoshop layers and After Effects support
- 24-bit audio file compatible with Digidesign® Pro Tools® system
- Remote play and capture

Project management/asset management

- Multilevel find, sift, and sort functions
- Frame, script, text and brief views
- Unlimited number of bins
- Media Consolidate/Transcode feature
- Folder hierarchy (nestable folders) within Project Window
- Advanced project accounting tools
- User, project, and site settings
- Ability to lock master clips, subclips, sequences (tracks), and media

Web and interactive delivery

- One-button export of Windows Media (ASF), QuickTime 7.0, and MPEG-2
- QuickTime Movie output, embedded or referenced
- Sorenson Squeeze
- Sonic® DVDit

Networking and storage

- Supported on the Avid Unity family of media networks for real-time performance in a collaborative environment
- Supported in Avid Interplay workgroup environments
- Supports Avid local storage product families

System configuration

Every Avid Symphony Nitris system is fully qualified, tested, and supported by Avid to deliver the highest performance and customer satisfaction right out of the box.

Each system includes:

- Avid Symphony Nitris software
- Avid Nitris Digital Nonlinear Accelerator (Avid DNA™) hardware
- Qualified Hewlett-Packard workstation with one-year on-site maintenance
- High-performance, high-capacity media storage
- Dual 19-inch flat panel LCD monitors or optional dual 20- or 24-inch monitors
- Software and hardware maintenance included



Avid Nitris Digital Nonlinear Accelerator hardware offers comprehensive SDI and HD-SDI video and audio I/O.

Avid Total Services

Support, Training, and Consulting Services that provide faster return on your investment by getting your systems and personnel up and running quickly, maximizing workflow efficiency, and meeting your production schedules.

To learn more, visit www.avid.com/symphonynitris or

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