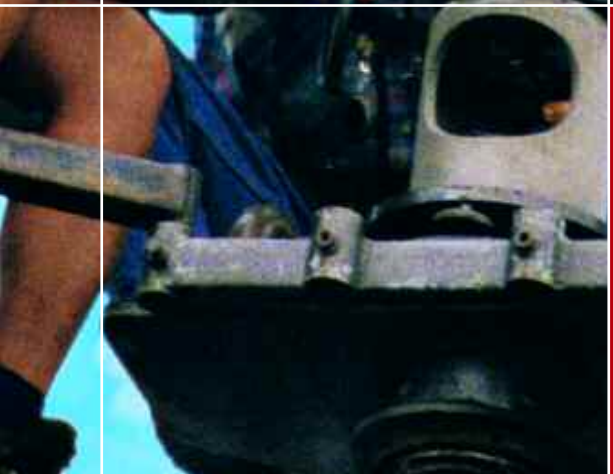




Avid Symphony Nitris

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 HD-SDI high-definition video I/O (one input, two outputs)
- HD component YPbPr or RGB output
- HD XVGA 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 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, 30, 29.97, 25 Hz
 - 1080 PsF at 30, 29.97, 25, 24, 23.976 Hz
 - 720p at 60 and 59.94 Hz
- Real-time mastering-quality Avid DNxHD encoding at 145 Mbit/sec (8-bit 4:2:2) and 220 Mbit/sec (10-bit and 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; DVCPRO HD support
- 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
- I/O support for tapes with timecode breaks and repeated timecodes
- Assembly insert mode for output
- 16:9 anamorphic media support

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
- Powerful real-time architecture allows up to 2 streams of uncompressed HD or 8 streams of uncompressed SD video, each with primary and secondary color correction, DVE or blur, a title and a key
- DI offline capabilities for file-based workflows
- AVX™ 2.0 support for more robust plug-ins
- Multiprocessor optimized

Editing features

- SD Universal Mastering
- Mixable resolutions in timeline
- Real-time multicam (9 screens SD, 3 screens HD)
- Compatible with ABVB AVRs and Meridien™ JFIF
- Media consolidate and transcode between resolutions
- 24 video and audio tracks (unlimited video layers via nesting)
- 24 MetaSync® tracks
- Full 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™ option
- Frame Chase™ editing (Avid Interplay required)
- 23.976 fps, 24 fps, and film editing

Digital video effects and compositing

- Motion tracking and stabilization featuring SteadyGlide™
- Real-time blurs
- Real-time Reformat tools for aspect ratio management
- Real-time 16-bit SpectraMatte high quality keyer
- Real-time customizable 3D effects, including Warp, Picture-in-Picture, Corner Pinning, Shapes, Video Titles
- Real-time 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
- Nondestructive compositing on unlimited layers
- Customizable rampable motion effects UI, including the FluidMotion™ system
- FluidFilm for film look in 50i and 60i material
- Supports all AVX 1.5 and AVX 2.0 plug-ins, including third party real-time plug-ins
- ExpertRender™ renders just the effects needed
- Intraframe™ Paint, AniMatte™, Scratch Removal
- Pan and Zoom creates video from high-res stills
- Native 10-bit Boris Continuum Complete effects and filters

10-bit color correction

- Real-time Primary and Secondary color correction tools
- One Step AutoCorrect
- Patented NaturalMatch™ option
- Three-monitor color correction windows
- 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

- Full support for Avid Unity media networks and Avid Interplay nonlinear workflow solutions
- HD and SD 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
- Longitudinal Time Code (LTC) output and input
- Adobe Photoshop and After Effects support
- 24-bit audio file compatible with Digidesign® Pro Tools® system
- Remote play and capture
- Integrated "Send to DigiDelivery®"

Project management/asset management

- Multi-level find, sift, and sort functions
- Frame, script, text and brief views
- Script-based editing interface
- 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 media
- Supports Avid Interplay for facility-wide search and display and local or remote asset management

Web and interactive delivery

- Encoding of WMV HD and Windows Media 9, H.264 MPEG-4, MPEG-1 and -2, QuickTime, Flash, and RealMedia
- QuickTime Reference Movie output
- Sorenson Squeeze

Networking and storage

- Avid Unity support for shared storage, real-time collaboration, media protection, and network security
- Supports Avid Interplay Access client; Interplay Assist tools; and Interplay Transcode, Interplay Transfer, and Interplay Archive network services
- Supports Avid local storage products for fully tested solutions with guaranteed performance:
 - Avid VideoRAID™ RTR320 and RTR320X disk arrays
 - Avid MediaDock™ Ultra 320 SCSI removable storage

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-inch monitors
- Software and hardware maintenance included



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

To learn more, visit www.avid.com/symphonynitris or contact your local reseller.

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