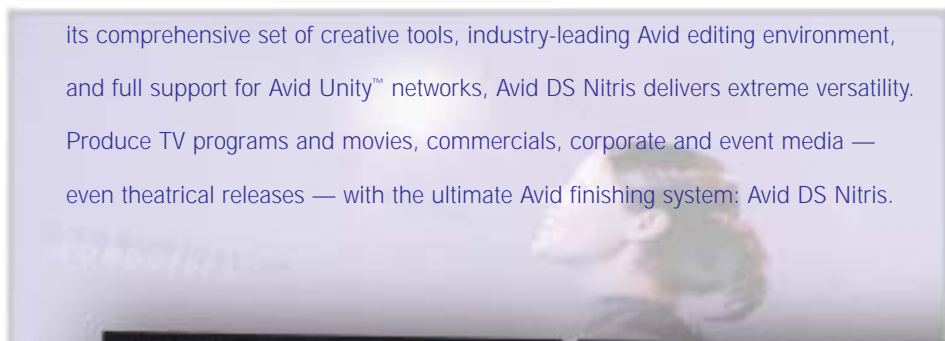


Avid DS Nitris Family

THE ULTIMATE COMBINATION OF REAL-TIME, MULTISTREAM 10-BIT HD PERFORMANCE, CREATIVE FREEDOM + FINISHING FLEXIBILITY

Supercharge your creativity with the world's best SD and HD solution for high-performance finishing and mastering. Designed for advanced editors and artists who want the ultimate in quality, performance, creative flexibility and interoperability, the Avid® DS Nitris™ system offers guaranteed real-time editing and effects — from DV25 to multistream 10-bit HD. The industry's hottest NLE system combines deep creative editing and finishing software with the most powerful media processing hardware available — the new Avid Nitris Digital Nonlinear Accelerator (DNA). With its comprehensive set of creative tools, industry-leading Avid editing environment, and full support for Avid Unity™ networks, Avid DS Nitris delivers extreme versatility. Produce TV programs and movies, commercials, corporate and event media — even theatrical releases — with the ultimate Avid finishing system: Avid DS Nitris.

Footage courtesy of Colorado Production Group



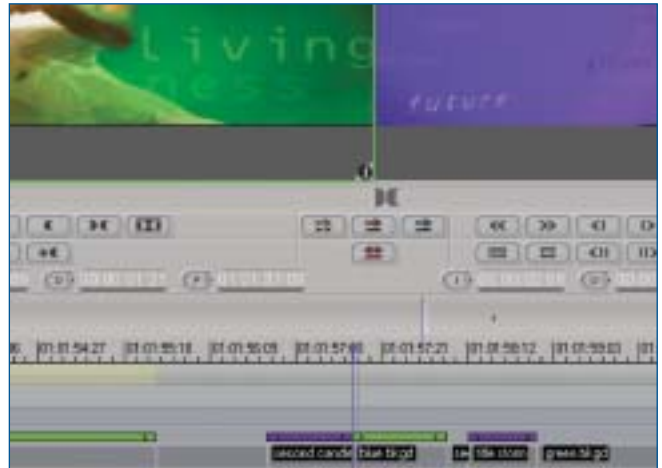
- VERSATILE ◦ POWERFUL ◦ SCALABLE
- RESOLUTION INDEPENDENT ◦ REAL TIME

Avid DS Nitris Family

The only system you'll need for creating, conforming, correcting
+ delivering high-quality, high-impact, high-definition media

The ultimate in artistic freedom and finishing flexibility, Avid DS Nitris systems combine an awesome set of creative tools — including paint, compositing, 3D DVE and character generation, motion effects, image treatments, and more — in a single consistent interface. The robust editing and finishing toolset includes advanced color correction, keys, downstream graphics, and support for multichannel audio mixing. And a nearly unlimited array of I/O formats and resolutions and high-definition Universal Mastering let editors edit once and output to any format they need, quickly and easily.

The dedicated media processing power of the purpose-built Avid Nitris DNA system supports two streams of 10-bit uncompressed HD video — in real time — and up to eight simultaneous streams of uncompressed SD video. Designed to harness host CPU performance and to scale as host processing power is upgraded, the Nitris accelerator is also programmable to add future real-time effects such as blurs, secondary color correction, and real-time Chroma keys. And with their unmatched support for AAF and OMF® compositions, media compatibility with existing ABVB and JFIF (Meridien™ hardware) systems, and interoperability with Avid Unity networked storage solutions, Avid DS Nitris systems integrate seamlessly into any Avid system-based workflow.



Footage courtesy of Colorado Production Group

Media Composer®-style video and audio editing

- o Powerful enough to handle 2K scanned image files such as DPX.
- o One system supports 2K, HD, NTSC, and PAL formats without reformatting drives.
- o Supports multiple progressive HD mastering resolutions including 23.976p, 24p, and 25p.
- o Avid DS Nitris systems can store captured media in the open, industry-standard MXF format.

DID YOU KNOW?

- o Avid DS Nitris systems offer complete media and project metadata interoperability with Digidesign® Pro Tools® audio sessions and SOFTIMAGE®|XSI® effects files.
- o Avid's new master-quality HD codec supports both 145 Megabit (8-bit 4:2:2) and 220 Megabit (8/10-bit 4:2:2) at both 720p/i and 1080p/i resolutions. Using this codec, the Avid DS Nitris system supports nonlinear workflows with Avid Unity MediaNetwork at HD quality.
- o MXF is an open, industry standard for storing all types of media allowing for transparent media access across multiple platforms, software applications, and devices.

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 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
- Simultaneous output of HD and SD in real time
- Uncompressed HD formats:
 - 1080i at 30, 29.97, 25 Hz
 - 1080 PsF at 30, 29.97, 25, 24, 23.976 Hz
 - 720p at 60, 59.94, 50 Hz and film-compatible frame rates
- Innovative production-quality compressed HD formats at 145 MBit (8-bit 4:2:2) and 220 MBit (8/10-bit 4:2:2)
- Uncompressed PAL and NTSC ITU-R 601 formats
- DV25, DV50, and MPEG IMX standard-definition formats (playback and processing only)
- HD tri-level sync and standard-definition sync reference inputs
- Avid legacy standard-definition format support (Meridien JFIF, ABVB) (playback and processing only)
- 2K, HD, NTSC, and PAL support on same system without reformatting drives

Audio Editing + Mixing + 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
- ADAT digital audio I/O
- Support for embedded SDI audio
- 8-channel XLR balanced analog audio I/O
- Dual microphone inputs
- Dual audio monitor outputs
- Audio sampling at numerous rates including 96 kHz, 48 kHz, 44.1 kHz, and 32 kHz
- Unlimited audio tracks for editing
- Support for multichannel audio mixing and panning including 5.1 surround sound
- Sample and frame-based audio editing
- Automatic audio sample-rate conversion

Picture Editing

- Unlimited number of video and overlay tracks
- Mix multiple compression ratios and resolutions within a sequence
- Direct timeline manipulation of all edits
- 3:2 pull-down removal and replacement
- Global and local timeline ripple controls
- Containers for managing multilayer effects and organizing complex timelines[†]



Footage courtesy of Colorado Production Group

Real-time Advanced Color Correction

Effects + Transitions

- Real-time effects support at 10-bit HD resolutions*
- Real-time Dissolves, Fades, Superimpositions, and standard SMPTE Wipes*
- Real-time Picture-in-Picture effect*
- Real-time Avid Symphony™-style advanced color correction*

Compositing + Tracking[†]

- Compositing on unlimited layers
- Effects Tree — A powerful interface for creating and managing complex multilayered composites[†]
- Unlimited external mattes per layer with Boolean operations for combining mattes[†]
- Extensive set of compositing operations between layers and mattes[†]

3D DVE + Character Generation^{††}

- User friendly 3D environment with interactive OpenGL-accelerated display and true 3D X, Y, and Z coordinate space[†]
- 3D rotate, scale, translate, and skew controls[†]
- Animatable camera for simulation of common camera effects[†]

Paint

- Vector-based, nondestructive paint system with high-performance raster mode for rotoscoping
- Freehand, polyline, and shape-based drawing, animated handwritten strokes, combine or separate strokes, clusters
- Animated stroke morphing
- Pressure-sensitive painting tools
- Fully animatable and editable brush strokes

Media Management

- Media management tools for searching, sorting, viewing, moving, and deleting media; share media across projects and machines
- Automatic tracking of multiple media compression ratios and resolutions per clip
- Purge tools for selectively deleting unused media

*Dependent on specific hardware configuration

[†] Available on Avid DS Nitris system only

^{††} 3D DVE and 3D Titling Process at 8 bits only

Avid DS Nitris Family

PRODUCT MODELS

The **Avid DS Nitris** system provides the most comprehensive integration of tools for completing HD and SD projects of any kind with Media Composer-style editing, Symphony advanced color correction, paint, graphics, character generation, advanced 3D compositing, special effects, image treatment, and project management — all within a single consistent interface.

The new **Avid DS Nitris Editor** offers the same resolution flexibility as the Avid DS Nitris system, plus the professional editorial tools customers expect in an Avid finishing system, including Symphony-style advanced color correction, sophisticated keying, DVE, basic compositing, image effects, paint and graphics tools, titling, and audio manipulation tools.

The **Avid DS RP** system enhances creativity by enabling editors and digital artists to experiment while computationally intensive tasks are automatically broken up and dispatched to multiple Avid DS RP systems for processing in the background.

Avid DS Nitris + Avid DS Nitris Editor System Configurations

Turnkey systems include:

- Avid DS Nitris software
- Avid Nitris Digital Nonlinear Accelerator (DNA) hardware

Hewlett Packard Evo Workstation XW8000 Platform Specifications

- Dual 3.0 GHz Intel Xeon Processors
- 1.5 GB ECC RDRAM
- ATI FireGL X1 256 MB OpenGL graphics accelerator card
- 80 GB IDE boot drive
- Integrated dual-channel Ultra 160 SCSI and Ultra ATA/100 controllers
- Windows XP Professional
- Storage configurations of eight hours uncompressed 601 and up
- 17-inch Flat Panel LCD monitors (standard), Dual 21-inch monitors (optional)
- 9x12-inch graphics tablet with pen, keyboard, and mouse
- One-year on-site system hardware maintenance (storage array is returned to Avid)
- 90 days software maintenance included
- Coupon for one (1) seat of Avid DS Nitris training (3 days) at an Avid Authorized Education Center



Avid DS Nitris features a broad range of professional input/output connections, including analog video and audio

LEARN MORE VISIT www.avid.com/dsnitris

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