AirSpeed 5000
Versatility and value

The Avid® AirSpeed™ 5000 server addresses a wide range of applications for broadcasters of any size. Designed for broadcast and production applications with regular feed, live acquisition, production, or play to air playback needs, AirSpeed 5000 excels as a standalone device or coupled with an Avid ISIS® shared media network and Interplay® Production asset management, allowing incoming material to be used immediately by all contributors. AirSpeed 5000 models pack two or four channels of XDCAM or AVC-Intra record and play plus DNxHD playback, or four channels of SD record and playback in a small form factor with modest per-channel power and cooling demand. AirSpeed 5000 integrates easily with your existing, applications, control, and automation systems.

End-to-end production workflow in your format
The AirSpeed 5000 Base configuration delivers DV25/50 and IMX 30/50 support, The 2 and 4 channel MPEG-2 HD models add support for XDCAM EX/HD, HDV, and DNxHD playback, plus AVC-Intra support on the 2 channel version. AVC-Intra 2 and 4 channel models also support MPEG-2 HD and DNxHD 120/145 playback. MPEG-2 HD and AVC-Intra models use Sony and Panasonic–sourced hardware codecs for the faithful, full-spec implementations. Full DNxHD 85/100, 120/145, and 185/220 record and play can be added to all models, and optional simultaneous H.264 proxy creation per channel supports easy and fast LAN/WAN-based workflows with Interplay® Production.

High availability
8TB of usable storage means ample capacity for programming, commercial, and interstitial content. RAID 50 media protection provides an optimal balance of performance and availability, and in combination with redundant OS drives, power supplies, network connections, and system fans, any single moving component can fail and the system will continue to operate within specification. Grouping up to five systems in an AirSpeed Studio configuration provides redundancy and flexibility for even greater playout confidence, along with the option for failover channels with a playback control or transmission automation system.

Faster production
The AirSpeed 5000 server can directly exchange files between XDCAM and P2 decks, 3rd party servers and editing systems. With Avid NewsCutter®, Media Composer®, or Symphony™ editors and ISIS® shared storage, the FrameChase™ feature virtually eliminates the time between acquisition and editing, letting connected editors access material seconds after the transfer begins. When editing is finished, clips are sent to AirSpeed 5000 with a single click and multi-channel playlists can be built for automated playback.

Play to air flexibility
The AirSpeed 5000 server was designed with workflow speed and playback flexibility in mind. Clips that don’t match the preferred playback format are automatically up, down, or cross converted, and channel output switching between HD and SD eliminates the need to dedicate channels to one format.

Fits your budget
With full-featured two or four channel versions and direct operation with Avid and other editors, AirSpeed 5000 gives you the confidence of a professional broadcast server that can fit modest budgets. Fully tested and qualified workflow solutions range from standalone operation with Avid NewsCutter and Media Composer editors to the economical NewsVision™ package with AirSpeed 5000, NewsCutter or Media Composer editing, ISIS 5000 shared storage, support, training, and on-site professional services to ensure smooth implementation. When ready, add the Avid Interplay Production, iNEWS®, and iNEWS Command, systems for central asset management, complete news content management, and assisted playback automation.

Automated capture and playback
Full integration with the Interplay Capture ingest control system delivers reliable feed scheduling and recording, and the built-in IsoSync® feature allows one-button, frame-synchronized multi-camera capture into Avid ISIS shared storage for fast editing and turnaround. When it’s time to go to air, the iNEWS Command playback control application provides cost effective play to air under automated, assisted, or manual control. AirSpeed servers also interface easily with automation systems through an available API, industry standard VDCP, support for external timecode, and GPI/O.

Safe, extended access
The Remote Console application provides the ability to monitor, control, cue, play, record, change clip in/out points, create sub clips, create and edit playlists, and manage clip inventory for all AirSpeed servers from any CPU. Clips are easily identified with reference frames and all media is accessible to feed room operations and connected editing clients. Administrators can grant selective user access control to help protect the integrity of on-air operations.

For more information visit avid.com/airspeed5000
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### Specifications

**VIDEO CHANNELS**

All Models:
- 2 or 4 bi-directional channels (1 input, 1 main output, 1 auxiliary output per channel)
- PAL, NTSC, 1080i 50/60, 720p 50/60 (SMPTE 259M, SMPTE 292M, SMPTE 295M, SMPTE 296M)
- Base model supports upconvert to HD output as a standard feature

**VIDEO COMPRESSION**

Base Model
(also MPEG-2 HD and AVC-Intra models)
- 4 channels
  - DV 25 (4:1:1 and 4:2:0) record or play
  - DV 50 (4:2:2) record or play
  - IMX 30 and 50 record or play

MPEG-2 HD (XDCAM) Model
(+ all SD formats)
- 2 or 4 channels
- HDV 25Mbps record or play
- MPEG-2 HD 17.5, 35, and 50 Mbps record or play
- DNxHD 85/100, 120/145 play
- 1 or 2 channels
- DNxHD 185/220 play
- (2 Channel version only) 2 channels
  - AVC Intra 50, 100

AVC-Intra Model
(+ all SD formats)
- 2 or 4 channels
- AVC-Intra 50, 100 record or play
- DNxHD 85/100, 120/145 play
- 1 or 2 channels
- DNxHD 185/220 play

Options
DNxHD for Base System option enables
- 4 channels DNxHD 85/100, 120/145 record or play
- 2 channels DNxHD 185/220 record or play
- 4 channels MPEG-2 HD (HDV 25Mbps, MPEG-2 HD 17.5, 35, and 50 Mbps) play
- DNxHD for MPEG-2 HD or AVC-Intra System option enables
- 2 or 4 channels DNxHD 120/145 record or play
- 1 or 2 channels DNxHD 185/220 record (MPEG-2 HD and AVC-Intra models play DNxHD as a standard feature)
- H.264 Low Res Proxy option enables

- Real-time simultaneous h.264 800Kbps proxy creation for each record channel
  Note: All supported formats can be seamlessly played back-to-back

**AUDIO**

Channels/Pairs
- SD (record or play): Up to 4 pair embedded audio per video channel
- HD (record or play): Up to 8 pair embedded audio per video channel

Sampling
- 48 KHz, 16, or 24 bit precision

Compressed Audio Preservation
- Pass-through of AC-3 and Dolby E audio

Low Res Proxy Audio
- Up to 8 pair audio creation per record channel
- MPEG1 Layer 2 audio compression

**CONTROL AND SYNCHRONIZATION**

External Control
- VDCP
- Native Network API (AMS API)

Manual Control
- Record, play, trimming, and configuration through UI
- IsoSync synchronized cue, record and stop up to 12 channels across multiple servers through UI
- GPI/O (Record, Play, Stop, Recue)

Timecode
- LTC SMPTE 12M one input and output per video channel
- VITC SMPTE 266 with Input and Output

Line Selections
- Ancillary timecode

Reference
- Analog black burst (NTSC or PAL) or tri-level reference, with loop-through input/output

Closed Caption and Ancillary Data
- All Closed Caption lines are preserved (DV, IMX, AVC Intra 50, 100)
- All HD ancillary data preserved per SMPTE 436

For more information visit avid.com/airspeed5000

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