



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 can operate 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 packs four record and playback channels of P2 HD/AVC-Intra, XDCAM/EX HD, DNxHD 120/145, and SD, or two channels of DNxHD 185/220 record and playback into 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

Native format support eliminates transcoding steps and workarounds for faster and simpler start-to-finish workflow. AirSpeed 5000 is available in Base configuration with DV25/50 and IMX 30/50 support, an MPEG-2 HD + SD model adds support for XDCAM EX/HD, HDV, and DNxHD 120/145 playback, and the AVC-Intra + SD, model also supports MPEG-2 HD and DNxHD 120/145 playback. MPEG-2 HD and AVC-Intra models use Sony and Panasonic—sourced hardware codecs for the most faithful, full-spec implementations. Full DNxHD 120/145/185/220 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

AirSpeed 5000 works with Avid and third party editing systems to support fast, easy to afford ingest-to-playback workflow. The economical Avid NewsVision™ solution includes AirSpeed 5000 along with NewsCutter or Media Composer editing seats, 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

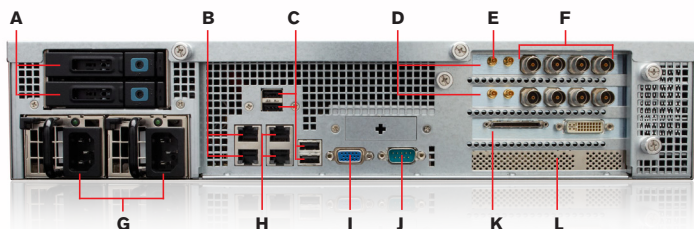
Full integration with the Interplay Capture ingest control system delivers reliable feed scheduling and recording, and the built-in IsoSync® feature allows one-button, frame-synchronized multi-camera capture into Avid ISIS shared storage for fast editing and turnaround. When it's time to go to air, the 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 GPIO.

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.

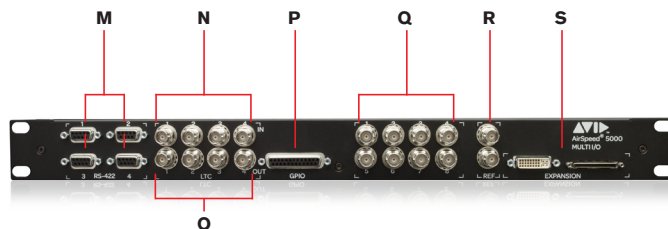
For more information visit avid.com/airspeed5000

AirSpeed 5000



- A. System drives
- B. Intel 82574L Gigabit network connection
- C. USB ports
- D. Video I/O cards
- E. Monitor
- F. Video
- G. Power connectors
- H. Intel Pro 1000 1 Gb ethernet ports
- I. Video port
- J. Serial port (not used)
- K. Multi I/O expansion card
- L. RAID controller

AirSpeed 5000 Multi I/O



- M. RS-422 ports
- N. LTC in ports
- O. LTC out ports
- P. GPIO port
- Q. Not used
- R. Genlock (reference)
- S. Multi I/O expansion ports

Specifications

VIDEO CHANNELS

All models:

- 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)
- 4 channels
- HDV 25Mbps record or play
- MPEG-2 HD 17.5, 35 (thin and full raster), 50 Mbps record or play
- DNxHD 120/145 play
- 2 channels
- DNxHD 185/220 play

AVC-Intra Model

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

Options

- DNxHD for Base System option enables
- 4 channels DNxHD 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
- 4 channels DNxHD 120/145 record
- 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 proxy 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)
- All HD ancillary data preserved per SMPTE 436

STORAGE

- Ten 1 TB drives, RAID 50 media protection (8 TB usable)

ASPECT RATIO CONVERSION (ARC) – UP/DOWN/CROSS CONVERSION

- SD ↔ 1080i, SD ↔ 720p, 720p ↔ 1080i, SD 4:3 ↔ SD 16:9
- Supports crop, anamorphic, pillarbox, letterbox outputs with dynamic conversion based on AFD

REDUNDANCY

- Redundant network connections
- Hot-swap redundant power supplies
- Hot-swap media drives
- Hot-swap mirrored boot drives
- N+1 system fans

FILE INGEST/EXCHANGE

- FTP transfer of MXF OP1a files in or out

PHYSICAL

Dimensions and Weight

- Server Chassis
- Rack Units: 2
- inches: 19.00 (w) x 3.5 (h) x 29.5 (d)
- mm: 483 (w) x 89 (h) x 749 (d)
- pounds: 62; kilograms: 28.1

Multi I/O Expansion Panel

- Rack Units: 1
- inches: 19.00 (w) x 1.75 (h) x 4 (d)
- mm: 483 (w) x 45 (h) x 102 (d)
- pounds: 4.4; kilograms: 2.0

Power

- Dual/Redundant hot-swap power supplies
- 90 to 240 VAC, 50/60 Hz
- 362W typical; 720W maximum

Environmental

- Operating Temperature: 0°C to 40°C
- Operating Humidity: 5% to 95% (at 38°C) non-condensing
- Non Operating Temperature: -20°C to 60°C
- 1235 BTU/Hr typical; 2593 BTU/Hr maximum

Acoustics

- 63.5 db at 1 meter typical
- 78 db at 1 meter maximum (at 40°C)

AVID ADVANTAGE 7X24 SUPPORT

- 1 year ExpertPlus 4 hour web response, critical phone support, hardware coverage and upgrades

For more information visit avid.com/airspeed5000

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