



# AirSpeed | 5500

Versatile media ingest and playout



From capture to broadcast, accelerate your entire SD and HD workflows with AirSpeed® | 5500. This best-in-class multichannel video server enables you to manage feeds, live acquisition, content production, and play-to-air demands easily. From direct codec support, automated capture, and proven media protection, to near-instantaneous ingest-to-playback turnaround and playout flexibility, AirSpeed | 5500 provides the performance and reliability you need to produce and deliver top-quality news, television, and sports content—on time and on budget—in a new, more powerful chassis.

## GET MORE POWER AND RELIABILITY

AirSpeed | 5500 features an all-new upgraded chassis and new 3.0 software, delivering much more power under the hood. With its next-generation CPU and motherboard, you gain greater performance to handle the most complex productions. It also supports Windows 10, providing the system-level security and reliability you need in today's challenging broadcast environments.

## TURN AROUND STORIES FASTER

With AirSpeed | 5500, you can automate and get near-instantaneous ingest-to-playback turnaround, enabling you to get stories or content to air as quickly as you acquire the media. You can also directly exchange files between various Panasonic AVC and Sony XAVC decks, third-party servers, Media Composer®, and other editing systems; start editing seconds after media recording begins using FrameChase™; and send content directly to AirSpeed | 5500 for playout with a single click. And when used with MediaCentral® | Ingest and/or Media | Director, you can trigger multisite playback remotely with Remote Send to Playback. It's the only video server that's designed to simplify and accelerate your entire media production workflow, from end to end.

## OPEN TO YOUR UNIQUE AND CHANGING WORKFLOWS

AirSpeed | 5500 runs on the Avid MediaCentral platform, giving you easy workflow integration, unrivaled collaboration, and great versatility. Choose to use it in your facility or in the cloud, with Avid and/or third-party systems, in a workgroup-connected environment, or as a standalone video server. Thanks to its open architecture, you can work with your choice of editing software, automation control systems, and external hardware controllers, with the freedom to switch things up should your needs change.

## ACCESS ASSETS ANYWHERE

By integrating AirSpeed | 5500 into a MediaCentral | Production Management or Interplay® | Production and Avid NEXIS® workflow, you gain unparalleled collaboration, performance, and access to all of your workgroup's media, whether you're onsite or working remotely. Plus, it brings a whole new level of creativity and collaboration with Media Composer | Cloud Remote, MediaCentral | Cloud UX, and MediaCentral | UX, supporting a start to finish workflow using XAVC Intra, XAVC-L (Long GOP), AVC-Intra, or AVC-LongG.

## SAVE TIME AND MONEY

Eliminate time-consuming transcoding with direct support for multiple Panasonic AVC, Sony XAVC, and other HD and SD media formats. In addition, AirSpeed | 5500 provides built-in up-, down-, and HD cross-conversion on ingest and playout across all channels, making it easy to work with disparate media, while eliminating the need for costly converters.

## AUTOMATE CAPTURE AND PLAYBACK

Whether you use an Avid or third-party automation control system, content recording and playout have never been easier. Integrate MediaCentral | Capture or Interplay | Capture and take the guesswork out of feed scheduling and recording. Use the built-in IsoSync® feature for one-button, frame-synchronized capture to Avid NEXIS for fast editing and turnaround. Capture events of any length with continuous recording. Integrate MediaCentral | Command (formerly iNEWS® | Command) for cost-effective playout with precision automation. Or integrate a variety of third-party control systems through an available API, industry-standard VDCP, Sony BVW control protocol, or GPIO.

## GET WIDE CODEC SUPPORT

AirSpeed | 5500 is designed around an advanced chipset that supports an extensive range of SD and MPEG HD operating points, including XDCAM HD, XAVC Intra HD, XAVC-L, AVC-Intra HD, and AVC-LongG.

## MANAGE MEDIA WITH THE UTMOST SECURITY

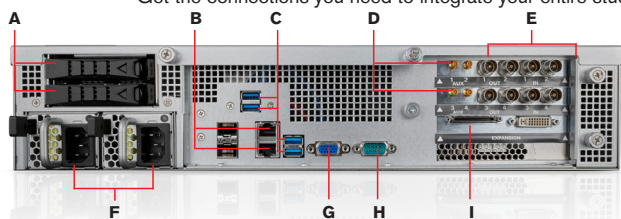
With 8 TB of usable storage (215 hours of 50 Mbps HD video) in the 4-channel model, or 4 TB of usable storage in the 2-channel model, you'll have plenty of space to house your programming, commercial, and interstitial content. Plus, you get optimal performance, fail-safe operation, and peace of mind with RAID 5 media protection and redundant OS drives, power supplies, network connections, and system fans.

FOR MORE INFORMATION, VISIT  
[avid.com/airspeed5500](http://avid.com/airspeed5500)

# AirSpeed | 5500—Versatile media ingest and playout

## AirSpeed | 5500 (backside)

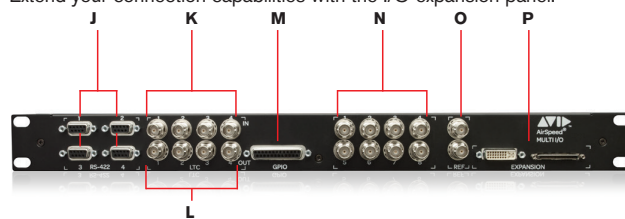
Get the connections you need to integrate your entire studio setup.



- A. System drives
- B. 1GbE/10GbE network connection
- C. USB ports
- D. Monitor
- E. Video I/O
- F. Power connectors
- G. VGA
- H. Serial port (not used)
- I. Multi I/O expansion card

## AirSpeed Multi I/O (included)

Extend your connection capabilities with the I/O expansion panel.



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

## SPECIFICATIONS

### VIDEO

#### Video channels

Choice of two models:

- 2-channel, bi-directional (2 inputs, 2 outputs, 2 auxiliary outputs)
- 4-channel, bi-directional (4 inputs, 4 outputs, 4 auxiliary outputs)

Both models support:

- PAL, NTSC, 1080i 50/60, 720p 50/60 (SMPTE 259M, SMPTE 292M, SMPTE 295M, SMPTE 296M)

#### Supported video compression

Supports recording and playback of:

- Panasonic AVC-LongG and AVC-Intra HD
- Sony XDCAM HD, XAVC-L, and XAVC Intra HD
- DV25 (4:1:1 and 4:2:0), DV50 (4:2:2)
- HDV (25 Mbps)
- IMX 30, IMX 50
- MPEG-2 HD 17.5 Mbps, 35 Mbps (thin and full raster), 50 Mbps
- SD formats

Supports playback of:

- DNxHD 85/100, 120/145; also supports 185/220 with 2 channels on the 4-channel model or 1 channel on the 2-channel model
- (2-channel model only) AVC-Intra 50, 100

#### Options:

- DNxHD option enables recording capabilities in addition to playback
- H.264 Low-Res Proxy option enables real-time simultaneous H.264 proxy creation (800 Kbps) for each record channel

#### Aspect Ratio Conversion (ARC)—up-, down-, cross conversion:

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

### AUDIO

#### Channels/pairs

- SD (record or play): Up to four pairs of embedded audio per video channel
- HD (record or play): Up to eight pairs of embedded audio per video channel

#### Sampling

- 16- or 24-bit, 48 kHz

#### Compressed audio preservation

- Pass-through of AC-3 and Dolby E audio

#### Low-res proxy audio

- Up to eight pairs of proxy audio creation per record channel
- MPEG-1 Layer 2 audio compression

### CONTROL AND SYNCHRONIZATION

#### External control

- Sony BVW 75 protocol
- VDCP
- Native Network API (AMS API)

#### Manual control

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

#### Timecode

- TC 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 captioning and ancillary data

- All closed caption lines are preserved (DV, IMX)
- All HD ancillary data preserved per SMPTE 436

### ADDITIONAL FEATURES

#### 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

#### Storage

- 2-channel: Five 1 TB drives (4 TB useable) with RAID 5 protection
- 4-channel: Ten 1 TB drives (8 TB useable) with RAID 5 protection

### CONNECTIONS

#### Serial

- Four DB-9 RS-422 connectors

#### LTC in

- Four BNC connectors

#### LTC out

- Four BNC connectors

#### SDI/HD-SDI in

- One BNC connector per channel

#### SDI/HD-SDI auxiliary out

- One BNC connector per channel (Main output)
- One 1.0/2.3 connector per channel (auxiliary output; 1.0/2.3 to BNC adapters included)

#### Reference in/loop

- Two BNC connectors (1 in and 1 loop out)

#### GPIO

- Eight GPI and eight GPO programmable pins through a DB25 expansion port

#### Keyboard/mouse port

- Four USB 3.0 connectors for a USB-compatible keyboard and mouse

#### Ethernet ports

- Two 1GbE ports (one Active); two 10GbE ports (one Active)

#### Video

- 15-pin SVGA

### DIMENSIONS AND WEIGHTS

#### Server chassis

- Rack space: 2U
- Dimensions: (W x H x D): 19 x 3.5 x 29.5 in (483 x 89 x 749 mm)
- Weight: 62 lbs (28.1 kg)

#### Multi I/O expansion panel

- Rack space: 1U
- Dimensions: (W x H x D): 19 x 1.75 x 4 in (483 x 45 x 102 mm)
- Weight: 4.4 lbs (2 kg)

### GENERAL

#### Power

- Dual redundant hot-swap power supplies
- 90–240 VAC, 50/60 Hz
- 362W typical
- 720W maximum

Corporate Headquarters 800 949 AVID (2843)

Asian Headquarters + 65 6476 7666

European Headquarters + 44 1753 655999

© 2017 Avid Technology, Inc. All rights reserved. Product features, specifications, system requirements and availability are subject to change without notice. Avid, the Avid logo, Avid NEXIS, AirSpeed, Avid DNxHD, FrameChase, iNEWS, IsoSync, MediaCentral, and Media Composer are either registered trademarks or trademarks of Avid Technology, Inc. or its subsidiaries in the United States and/or other countries. The name Interplay is used with the permission of Interplay Entertainment Corp. which bears no responsibility for the product. All other trademarks contained herein are the property of their respective owner

AS5500DS1117

FOR MORE INFORMATION, VISIT  
[avid.com/airspeed5500](http://avid.com/airspeed5500)