

# Playout made Cost-effective, Scalable, and Future-proof

## AirGo™ BR

### High-density and IP ready Ingest and Playout

As broadcasters and production outfits grow the number of channels and delivery methods for their subscribers, the need for a cost-effective solution for delivery of TV programs becomes more pronounced. The media workflow increases in complexity and makes investment in specialized or dedicated equipment more expensive.

AirGo BR is an innovative and cost-effective platform for broadcast customers to digitize and playback their content, either as a complement or replacement of their existing video servers. Built on an open IT-based platform, AirGo BR is powered by industry-proven Dalet BRIO, ensuring seamless integration not only with Dalet Solutions but also 3rd party systems, to provide a highly flexible and highly-scalable end-to-end solution. AirGo BR is designed to ingest and playout broadcast quality video in Proxy, SD, HD and UHD formats, and comes in a variety of input / output or local / central storage combinations and built-in redundancy.

Now, broadcasters can have high-density, highly-scalable, resilient, and cost-effective video ingest, playout, and streaming platform, provisioned with powerful user applications and tools with AirGo BR.



#### Key features

- Ingest and playout of multiple and mixed formats with dynamic conversion
- Wide choice of inputs and outputs (up to 12 simultaneous channels)
- Supports SD and HD, or a combination of both
- 2D & 3D graphics real-time render engine (optional)
- Streaming
- Wide codec support (including DNxHD, ProRes, AVC Intra, XDCAM HD, SR Master)
- Storage combination (local and/or direct connection to SAN)
- Backup Copier Agent
- Loop recording mode (aka FIFO)
- I/O live monitoring using a web browser
- Support 24/7/365

#### Key benefits

- Streamline your media workflows with a single system for production, ingest, & play-to-air
- Start with a suitable configuration today and scale as you grow
- Play files from legacy SeaChange (XOR Media), Harris NEXIO and Omneon servers

### **Flexible Codec Support**

AirGo BR supports a very wide range of software codecs ensuring broad interoperability. Industry-standard wrappers such as QuickTime & MXF are supported, allowing seamless workflow integration with third-party NLEs and Dalet production tools. AirGo BR supports DV-based Codecs, AVCi, AVC LongG HD, Sony XAVC-Intra and Long GOP HD Playout Support, most of the MPEG2 family including intra and long-GOP (IMX and XDcam HD), H264 and even proprietary codecs such as ProRes, DNxHD and Sony SRMaster (SStP). All formats can be played out back-to-back seamlessly, including a mix of SD and HD, on the same timeline, with dynamic cross-, up- and down-conversion of the video signal, as well as aspect ratio modifications.

### **Innovative System Architecture**

AirGo BR can work either with its own local storage, directly attached to a SAN, or in a hybrid configuration. And with AirGo BR having been designed for scalability, customers can readily choose from different redundancy, capacity, and storage connectivity options that suit their current needs and workflow complexities, while allowing them to add more AirGo BR units for increased capacity or for backup / DR configurations with ease.

### **Fully Integrated Graphics Engine**

AirGo BR offers an optional embedded graphics engine, which makes design and playout of CGs, crawlers, tickers, lower thirds, logos, full frame graphics and complex 3D animations a breeze. A wide range of setup options offers unique flexibility and facilitates graphics production and playout.

### **Flexible 3rd Party Support**

AirGo BR can be controlled using VDCP, BVW, or its API protocol making it simple to integrate with 3rd party MAM, NRCS, and Playout control or automation.

### **Ready to go and future-proof**

AirGo BR also helps bridge the gap to highly anticipated IP delivery methods as it provides support not only for SDI but also IP ingest and streaming. AirGo BR's highly configurable and flexible design ensures future scalability and compatibility, allowing customers to start small and later grow their system when the need arises.

### **Native playout of legacy files**

AirGo not only boasts of a wide list of encoding and decoding compression and file formats. AirGo also supports file import and native file playback (no conversion required) of existing legacy SeaChange and XOR Media BMC and BML files, as well as Harris NEXIO, and Omneon MPEG2 OP1a MOV and MXF files.

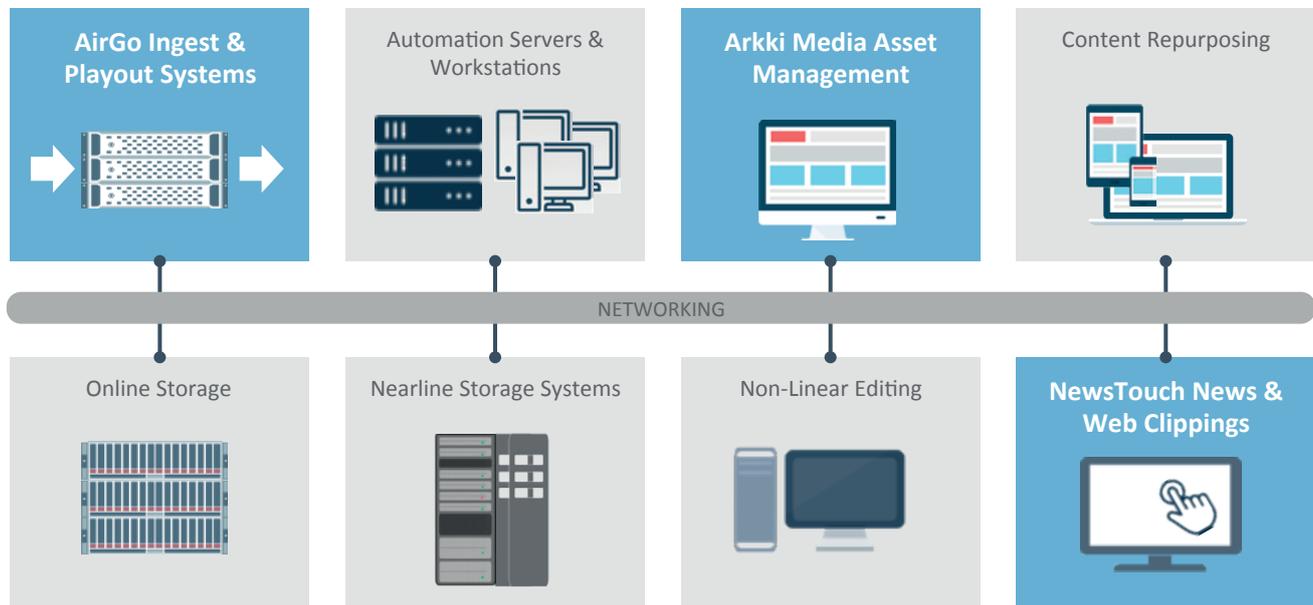
## AirGo BR Codec and Wrapper Support

<b>Codecs</b>	<p>SD (PAL, NTSC)                      DV25, DV50, DVCPro25, DVCPro50                      D10 IMX 30-40-50                      MPEG-2@ML - 4:2:0 I-Frame 2-15 Mb/s - 4:2:2 Long GOP 10-50 Mb/s</p> <p>HD (720p50, 720p59.94, 1080i25, 1080i29.97, 1080psf23.98, 1080p23.98)                      DVCProHD                      XDCAM HD - 4:2:0 (18-25-35 Mb/s) - 4:2:2 (50 Mb/s)                      Avid DNxHD® 120/145 (8-bit), 185/220 (8-bit), 185x/220x (10-bit)                      Apple ProRes 422LT-422-422HQ                      AVC-Intra Class 50/100                      Sony XAVC Intra and Long GOP                      Panasonic AVC-LongG (playback only)                      MPEG-4 SStP SQ/Lite                      MPEG-2@HL - 4:2:0 I-Frame 5-80 Mb/s - 4:2:2 Long GOP 5-300 Mb/s H264/AAC                      Uncompressed</p> <p>UHD - Check availability                      Apple ProRes 422LT-422-422HQ Sony XAVC (playback only)</p>
<b>Wrappers</b>	<p>MXF Op1a, MXF Op Atom                      QuickTime Reference, QuickTime Self-Contained                      MP4, AVI, MPG, WMV</p>
<b>Proxy</b>	<p>MP4 H264/AAC - Configurable profile/level/GOP size/bitrate/resolution                      WMV, DALET MPEG-2 Proxy</p>

## AirGo BR General Specifications

<p><b>Video specifications</b>                      SD SDI: SMPTE 259M, ITU-R601, 525/625 line component, 10-bit                      HD-SDI : SMPTE 292M, 10-bit                      75 Ohms BNC                      ITU-R BT.601 (data and electrical)</p> <p><b>Dynamic conversions (playback)</b>                      Up/Down conversion : PAL ↔ 1080i50, PAL ↔ 720p50, NTSC ↔ 1080i59.95, NTSC ↔ 720p59.95                      Cross conversion : 720p50 ↔ 1080i50, 720p59.94 ↔ 1080i59.94                      Aspect ratio conversion : AFD and WSS support for aspect ratio conversion (per channel)</p> <p><b>Special modes</b>                      Instant Replay and slow motion                      Video + key                      3D Graphics engine (Overlay or separate Fill and Key) Loop recording with extraction and time delay                      Ingest Once Write Many                      VTR recorders                      Print-to-Tape                      Multichannel Player as backup automation tool</p> <p><b>Video playback</b>                      Any supported format can be played seamlessly back-to-back</p> <p><b>Audio</b>                      Record and play up to 16 tracks</p> <p><b>Embedded audio tracks</b>                      16 tracks embedded per channel SDI (8AES-EBU)                      Supports SDI embedded audio compliant with SMPTE 272M (SD) and SMPTE 299M (HD).</p>	<p><b>Discrete AES/EBU audio tracks</b>                      8 tracks per channel (4 AES-EBU) on each of the 4 outputs Pool of 16 tracks (8 AES-EBU) for the 4 inputs</p> <p><b>Audio specifications</b>                      Input : 48 kHz, 16-bit, 20-bit or 24-bits digital audio PCM Audio clock genlocked to video reference in accordance with SMPTE 272M and AES11-1997</p> <p><b>Compressed audio types:</b>                      Any video clip with supported audio format can be played seamlessly back-to-back Dolby-E pass-through.</p> <p><b>Reference Genlock</b>                      Analog blackburst reference (tri-level or bi-level), SDI input as reference or free running mode.                      External termination with LOOP connector                      Sub-pixel adjustment at 0.9 ns/step with respect to genlock in SD Sub-pixel adjustment at 0.7 ns/step with respect to genlock in HD Flywheel on genlock.                      Connector : BNC, 75 Ohms with loop through</p> <p><b>Timecode</b>                      LTC SMPTE 12M for external "house" timecode Connector : Mini-XLR                      LTC and VITC reader/writer per channel HANC timecode support</p> <p><b>Video Preview</b>                      Customizable text overlay per channel                      Local VGA Previewer for each channel                      Streaming multiviewer for remote preview in a web browser</p>	<p><b>Control</b>                      BVW, VDCP over serial /IP (REQ, some optional commands) FIMS Capture V1.1 - RESTful implementation Administration API - RESTful                      Private API - DCOM</p> <p><b>Redundancy</b>                      Dual hot swappable power supplies                      RAID1 for system drives, RAID50 or RAID6 for data drives Hot spare drives                      Dual 10Gb or Quad 1 Gb Eth network attachment                      Dual FC attachment</p> <p><b>Monitoring</b>                      SNMP and WMI</p> <p><b>Connectivity</b>                      Four 100/1000Base-T Ethernet ports or Two 10Gb Ethernet One USB 3.0 front, two USB 3.0 rear                      One 15-pin SVGA                      Multi-serial ports board (optional)</p> <p><b>File transfer protocols</b>                      CIFS, FTP</p> <p><b>Dimensions</b>                      Width: 44.55 cm (17.54 in.) Height: 2 RU 8.9 cm (3.5 in.) Depth: 74.93 cm (29.5 in.) Weight : 28 kg (60 lbs) maximum</p> <p><b>Power requirements</b>                      Dual redundant Power supply, 750W hot-swap 50-60 Hz, 100-240 VAC</p> <p><b>Environmental characteristics</b>                      Operating temperature :+10°C to +35°C                      Non-operating temperature(not in use): -30°C to +60°C</p>
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## MediaPower MediaSuite Offerings



### About MediaPower

MediaPower enables media workflows by providing products and solutions for media content production and delivery across multiple platforms. Founded in 1993, MediaPower started as an integrator of certified networking and storage solutions for the media industry such as SeaChange, DDN, NetApp, and Dalet. It has built a long-standing expertise in designing and implementing turnkey solutions and IT-based workflows in the broadcast and media industry.

Today, MediaPower also has its very own line of innovative media technology offerings such as NewsTouch, a touch-based solution for press, video, and web presentations; Arkki, the first all-in-one Media Asset Management System-in-a-box; and AirGo, a highly integrated and cost effective play-to-air package that includes multi-format video server, automation, master control, and graphics.

Having started in Italy & France, MediaPower now has established offices in Europe, Asia, and the US, with global presence in over 30 countries through its expansive and continually growing channels network.

While MediaPower's main markets are broadcast television, IPTV, internet TV, post-production, and Archiving, the company also provides storage solutions and specialized software applications for the automotive, air space, military, and health industries.

Also, as a key differentiator in the area of systems integration, MediaPower through its own Services organization, offers integration services to media companies and support services to broadcast and media technology providers worldwide, while delivering a unique support system to entire solutions by centralizing all support calls for any solution component into its own 24x7x365 support center.