Production, Ingest, and Play-to-Air in a box

AirGo™

IP and Cloud Production & Playout System

As studios and production outfits grow the number of channels 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 equipment more expensive.

AirGo is a complete production, ingest, and play-to-air system by media technology provider MediaPower. In a mere 2RU machine, AirGo is a turnkey playout solution for multi-channel broadcasting that combines automation, playout, and interactive graphics within one system.

Now, broadcasters can have a single, compact, multitasking box to manage, reducing the cost and effort in maintaining a system that continues to scale in size and complexity, as it transitions to newer transport technologies. AirGo comes with functionalities that cover a significant portion of the media workflow including support for advanced graphics, built-in storage with edit-in-place, edit-while-ingest, and simultaneous SDI and IP ingest/playout.
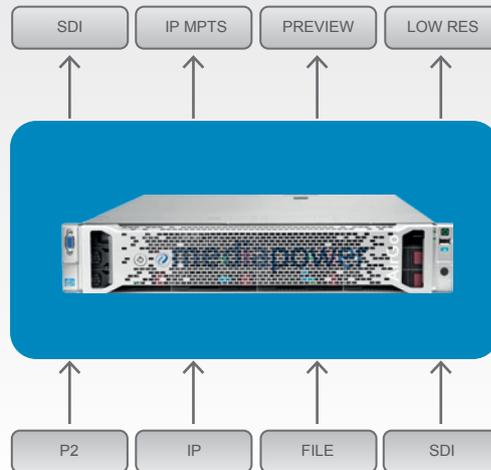
Key features

- All-in-one system in a 2RU box
- Advanced graphics support
- Touchscreen master control
- Stand Alone Video Server
- Networked EDGE server with stream thru capabilities
- Up to 8 IN 8 OUT HD / SD SDI
- Low res proxy generation on ingest
- Up/down conversion on playout
- From 8 to 40 TB of RAID protected internal storage
- Hi-res video preview on HDMI
- MAM, automation and channel branding
- Simultaneous IP and SDI IN/OUT
- Rate Control CBR and VBR
- Streaming Protocols: UDP, RTP / RTSP / RTCP
- Support 24/7/365

Key benefits

- Streamline your media workflows with a single system for production, ingest, and 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
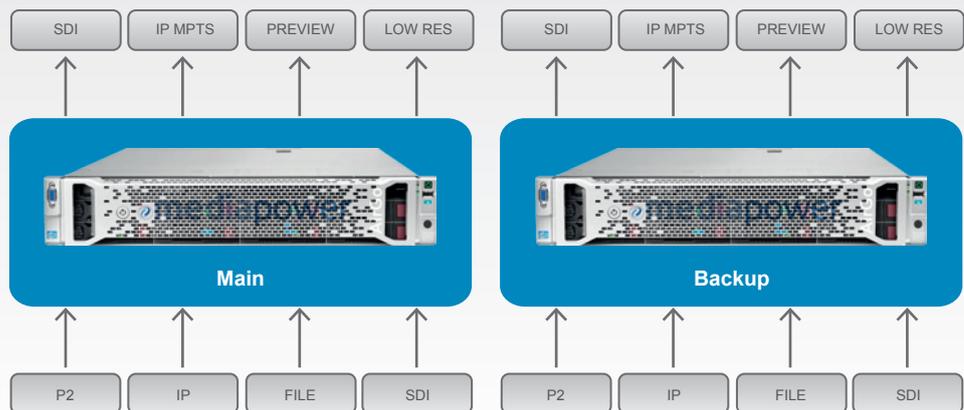
Stand-alone video server with automation

| SDI | IP MPTS | PREVIEW | LOW RES |

• *Robust, simple, and cost-effective*

• *Up to 8 IN 8 OUT in a single server with built-in automation and database*

• *High video and audio quality with Matrox cards*

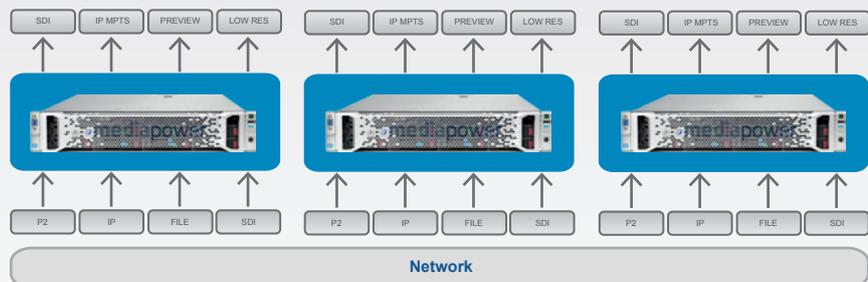• *For live and recorded contents with graphics with graphics and touchscreen master control*

| P2 | IP | FILE | SDI |

AirGo in Main / Backup Configuration

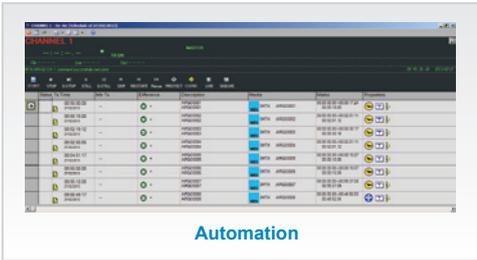| SDI | IP MPTS | PREVIEW | LOW RES | | SDI | IP MPTS | PREVIEW | LOW RES |

• *Fully redundant solution*

• *AirGo Main and AirGo Backup are always in sync*

• *Any failure of the main video server is detected by a built-in application that issues a command to the video router to switch to the backup server*

Main

Backup

| P2 | IP | FILE | SDI | | P2 | IP | FILE | SDI |

Multiple AirGo with central NAS storage

| SDI | IP MPTS | PREVIEW | LOW RES | | SDI | IP MPTS | PREVIEW | LOW RES | | SDI | IP MPTS | PREVIEW | LOW RES |

• *Fully scalable play to air system*

• *Multiple servers connected to a single redundant central storage*

• *Direct ingest on central storage*

• *Direct play out from central storage or from each storage embedded in the video server*

• *Automation can handle 1+1 and n+1 redundancy*

• *Online storage capacity expansion*

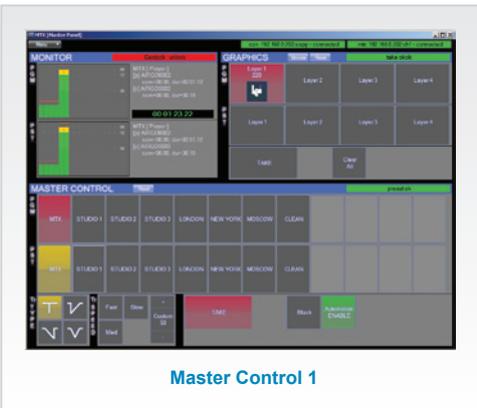| P2 | IP | FILE | SDI | | P2 | IP | FILE | SDI | | P2 | IP | FILE | SDI |

Network

Automation

Advanced Graphics

Master Control 1

Built-in automation, ingest and playout, and graphics support

AirGo can singlehandedly manage all the tasks required of a typical television workflow. AirGo does file-based ingest of multi-format and multi-resolution media files with transcoding and quality check. Files may be stored in the built-in storage or streamed through for direct playout. It features frame-accurate playout of SD and HD clips; back-to-back playout of multiple formats and multiplexes; and up/down real-time conversion. Its embedded graphics support allows integrated graphics overlay for inserting logos, subtitles, and crawls, DVE, PIP, external feeds, applicable to tickertapes, scoreboards, schedules notifications, program junctions, and TV show promotions. The entire media workflow may be controlled and automated using a single touchscreen interface that serves as master control.

Media files in a box

The 2RU AirGo comes with up to 40 TB of RAID-protected content. It is a reliable storage where files can be edited in place or while being ingested, previewed, or played to air.

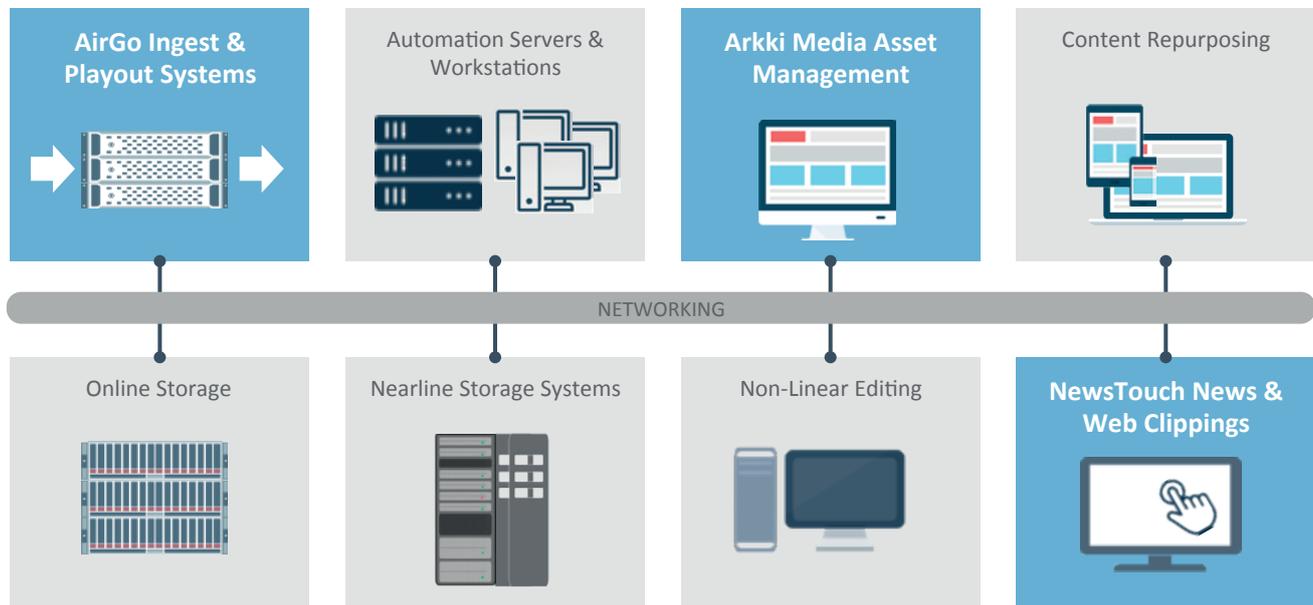### Ready to go and future-proof

Whether a small local station or a nationwide TV network, AirGo introduces efficiency and automation into a media workflow. AirGo is designed for scalability, and customers can readily choose from different redundancy and capacity options that suit their needs and workflow complexities. They can buy now and scale later. Also, AirGo helps bridge the gap to highly-anticipated IP delivery methods as it provides support for simultaneous SDI and IP IN/OUT capabilities.

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.

Specifications	
Graphics Functions	Logos, crawls, DVE, PIP, CG (subtitles management), video transitions
Encoding Features	Apple ProRes 2K, QFHD, 4Kfiles, Avid DNxHD OP1a and 3G MXF, H264
Decoding Features	From SD to 4K 60fps, play Harris Nexio, SeaChange (XOR Media) and Omneon files, Mpeg2 TS SCTE35 H.264 AVC with AAC audio, MXF and MOV with more than 16 audio tracks
Supported Compressions	MPG2, DV25, HDV, DVCpro, DVCpro50, DVCproHD, IMX30/40/50, XDCam-EX, XDCam-HD, AVCIntra, AVC-HD, H264, WMV, DNxHD, ProRes, Mpeg2 TS
Supported Wrappers	AVI, MXF, GXF, QT
IP Streaming Support	RTMP (FMLE) Streaming to Flash Media Server RTMP (FMLE); Streaming to Wowza Media Server; HTTP Streaming; UDP, RTSP and RTMP Streaming; UDP multicast as lower transport protocol

MediaPower MediaSuite Offerings

| AirGo Ingest & Playout Systems | Automation Servers & Workstations | Arkki Media Asset Management | Content Repurposing |

NETWORKING

| Online Storage | Nearline Storage Systems | Non-Linear Editing | NewsTouch News & Web Clippings |

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.