

AirBox



- ▶ Compatible with a vast variety of MPEG2, HDV and DV media formats
- ▶ **Totally unlimited on-air playlist editing**
- ▶ **Advanced time-based scheduling with automated gap and overlap resolving**
- ▶ **Output video scaling for picture-in-picture and info channel look with live video and graphics**
- ▶ **MPEG2 at different resolutions, profiles and bitrates can coexist in the same playlist, together with streams coming live**
- ▶ **Integrated MPEG2, HDV and DV stream remultiplexing engines**
- ▶ **Playback of clips still being captured**
- ▶ **Content trimming and editing**
- ▶ **High reliability and seamless playlist playback or streaming**
- ▶ **Synchronized fill and key playback**
- ▶ **Flexible playlist logging**
- ▶ **Live MPEG2 streaming sources supported (optional)**
- ▶ **DVB ASI or UDP streaming output with MPEG2 Transport Stream (optional) NEW**
- ▶ **Redundant payout (optional)**
- ▶ **VTR control for tape-based payout (optional)**
- ▶ **Switcher and GPI control (optional)**
- ▶ **On-air subtitling (optional)**
- ▶ **Multi-language audio payout (optional)**
- ▶ **VDCP-compliant payout channel (optional)**
- ▶ **HD and HDV payout (optional)**
- ▶ **Excellent price/performance**
- ▶ **Powerful dynamic playlist engine available for OEMs through a simple SDK**

matrox
Digital Video Solutions

Blackmagicdesign

Stradis

DELTA CAST



✦ AirBox provides automated content payout for satellite channels, cable head-ends, over-the-air broadcasters and corporate TV users. It is designed to be extremely robust, in order to meet the highest reliability demands of on-air payout. Due to its unique modular architecture it is also suitable for webcasters, hotel Pay TV channels, corporate presentations, video wall sourcing and other program distribution systems. At a fraction of the price of any digital videotape player, a single AirBox server offers the same visual quality at its single- or multi-channel SDI outputs, multi-language audio, graphics and subtitle insertion, last-minute playlist changes and clip editing.

✦ AirBox supports MPEG2, HDV and DV streams from virtually every known production platform providing AVI, MPEG, Quick Time or MXF content. It has an integrated remultiplexing engine, ensuring the output stream is compliant with the MPEG2 or DV specs. This engine corrects on-the-fly a number of multiplexing errors such as unequal video/audio duration, missing or corrupted frames or packets, poor stream integrity, PTS/DTS inconsistencies, etc. Files from third-party servers such as Leitch or Seachange are natively supported.

✦ Any combination of MPEG2 clips at differing resolutions, bitrates, profiles and levels can be played in a single sequence seamlessly with no glitches or hardware reinitialization. The cut from one clip to another is completely seamless even with live streams - no black frames, no pause, no last frame freeze, no audio pops, no glitches, no duration limitations... The continuous output stream can be sent to a variety of SDI output platforms and/or streamed through ASI or UDP technology.

✦ Wide selection of video hardware choices covers a broad range of applications and budget levels. The main difference is video output signal quality, codec and resolution capabilities. Professional SD hardware support bitrates up to 50 Mbit/sec and 4:2:2 color sampling, while HD hardware runs up to 80Mbit for MPEG2 HD.

✦ For live productions, any changes to the playlist during on-air session are possible! There are no "qued" or "locked" clips. Every clip in the playlist, except the one which is currently playing, can be trimmed, edited or repositioned. Moreover, playlist order can be changed on-the-fly with commands like "skip to next" or "jump". Such order changes are performed seamlessly without stopping current payout session.

✦ For automated payout Airbox allows fixed-time scheduling for weeks ahead. Resulting gaps or time overlaps are automatically resolved in order to ensure continuous operation even when conflicting timed events are present. Special facilities ensure uninterrupted operation if content files or even entire schedules are missing or misplaced.

✦ For budget-minded operations, AirBox provides excellent storage savings through the MPEG2 Main Profile at Main Level IBP streams. At 8 Mbit/sec, 24 hours of full-motion, full-resolution content fits in less than 90 GB storage. Additionally, at such low bitrates, high-speed SCSI storage or a FC network is not a must anymore.

✦ Payout sessions are being logged for monitoring and control purposes. The log can be later used for extracting actual payout sequence with exact timings or identifying user intervention into the payout session. The logging and recovery options allow completely unattended remote operation.



AIRBOX SPECIFICATIONS

Video

Compression[†]	MPEG2, DV, HDV
Format[†]	PAL / NTSC / 1080i HD / 720p HD
Group-Of-Pictures	I-frame only, Short GOP, Long GOP
Bitrate[†]	1 - 15 Mbit/sec in MP@ML 10 - 50 Mbit/sec in 422P@ML 1 - 80 Mbit/sec in MP@ML 25 Mbit/sec with HDV and DV
Color sampling[†]	4:2:0 - MPEG2 Main Profile (incl. HDV) 4:2:2 - MPEG2 4:2:2 Profile 4:2:0 / 4:1:1 - DV 25 Mbit/sec

Audio

Compression	MPEG audio Layer 1/2 and uncompressed PCM
Bitrate (MPEG audio)	64-384 Kbit/sec
Sampling	48 kHz

File Formats

MPEG2	MPG or M2P - Program Streams M2T or TS - Transport Stream OpenDML AVI and WAV (mono and stereo) MXF
DV	OpenDML Type 1 and Type 2 AVI, QuickTime, Raw DV, MXF
HDV	MPG or M2P - Program Streams M2T or TS - Transport Stream

Other Applicable Modules

PRO Option	GPI, Switcher and TitleBox control, Live MPEG2 Stream input, Output video scaling [†]
Multi-track Audio	Up to 4 stereo audio outputs simultaneously [†]
VTR control	Tape-based playout from up to 2 VTRs
AirBox Backup	Redundant playout module on separate PC
HD/HDV NEW	HD and HDV playout
Streaming NEW	DVB ASI or UDP streaming output
Multi AirBox Manager	Remote control of multiple AirBox servers
VDCP (slave)	VDCP automation control interface support
TitleBox	On-air graphics insertion
SubtitleBox	On-air automated program subtitling
SafeBox	Automated content replication and removal
DataBox	Powerful content database

Video Hardware

MPEG2 / DV	Blackmagic Design DeckLink series Matrox X.MIO & DSX LE series
MPEG2 TS	Deltacast Delta-ASI series
MPEG2	Stradis SDM series
MPEG2 HD / HDV	Redundant playout module on separate PC
MPEG2 / DV / HDV	HD and HDV playout

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