PRODUCT BROCHURE

AirBox Mega

Universal Playout &
Streaming Automation

ABOUT AIRBOX MEGA

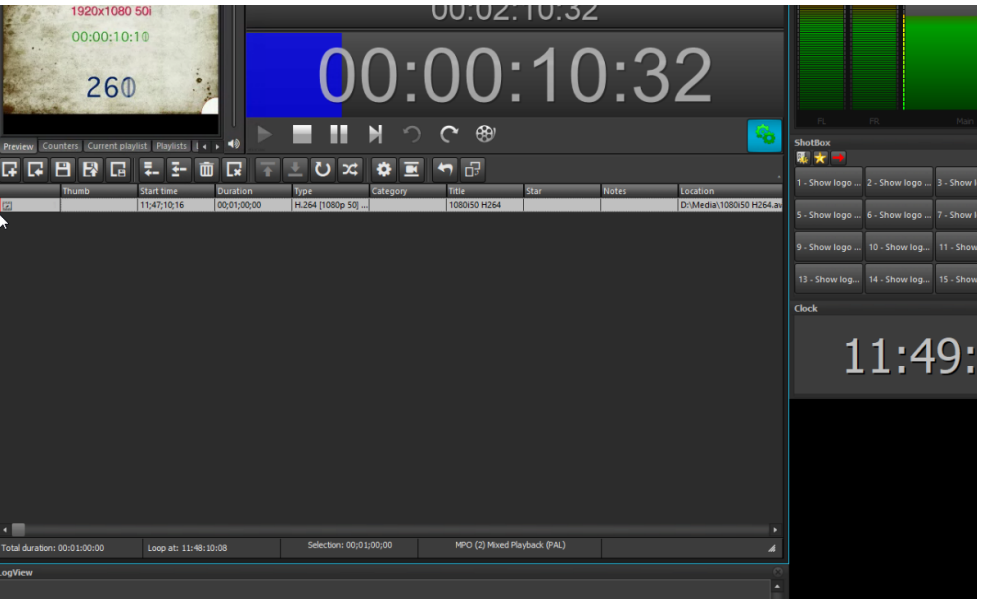
AirBox provides automated content playout for satellite channels, cable head-ends, over-the-air broadcasters and corporate TV users. It is designed to be extremely robust, in order to meet the highest reliability demands of on-air playout. Due to its unique modular architecture, it is also suitable for webcasters, hotel Pay TV channels, corporate presentations, video wall sourcing and other program distribution systems.

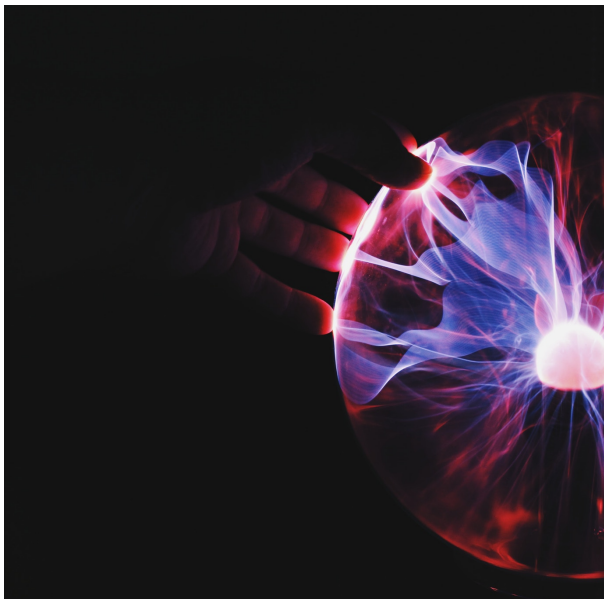
AirBox Multi Parallel Output enables the running of two or more SDI or IP streaming SD/HD outputs simultaneously so that broadcasters can easily provide parallel outputs in any combination needed to deliver the content.

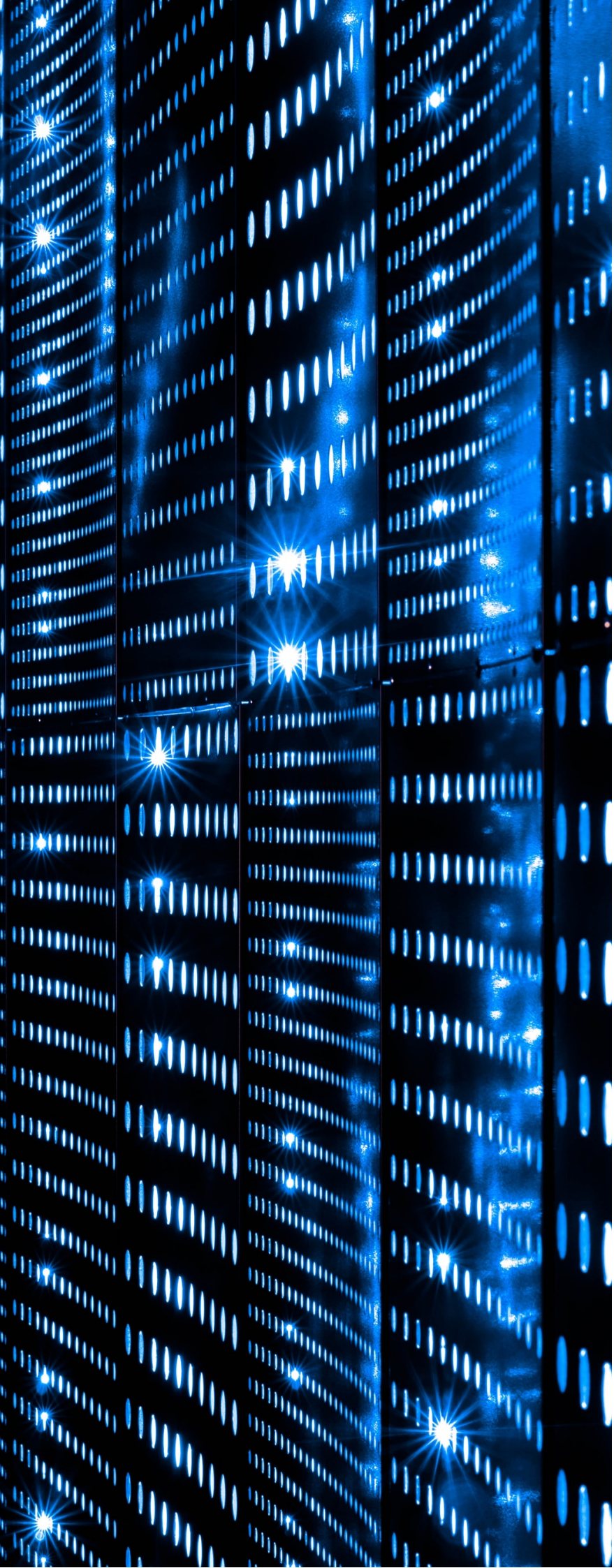
AirBox supports a wide variety of video/audio formats from virtually every known production platform. Files from third-party video servers such as Leitch, Seachange, etc. are natively supported.

Any changes to the playlist during on-air session are possible! There are no locked clips in the playlist, except the one which is currently playing. They can be trimmed, edited or repositioned. Playback order can be changed on-the-fly with commands like skip to next or jump. Such order changes are performed seamlessly without stopping the current playout session. Live productions are facilitated by the powerful Live Show Clipboard which allows insertion and/or execution of various events or live streams.

For automated playout AirBox allows playlist 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







NEW FEATURES

Intel QSV hardware accelerated

MPEG2/H264/HEVC decoding and MPEG2/H264/HEVC encoding

SCTE35 triggers reading and generation over IP UDP transport stream

SCTE104 triggers reading and generation over SDI outputs

MPEG DASH dynamic adaptive streaming over HTTP output

HLS HTTP live streaming IP output

Matroska Multimedia Container (.MKV) content supported in the playlist

Nvidia VGA hardware acceleration support for H264/AVC and H265/HEVC decoding

Targeted time code information to specific IP address

Support of audio-only content in for radio, music and informative channels playout automation purposes

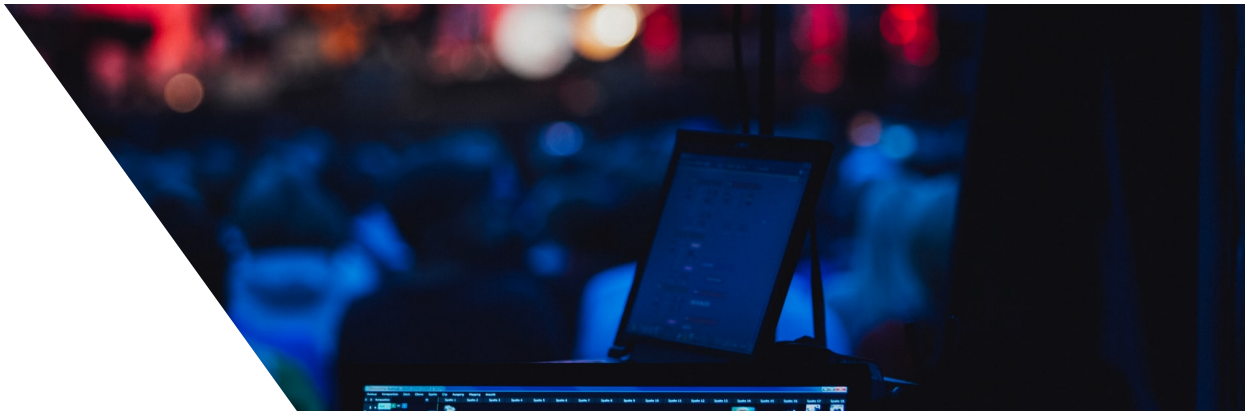
Support of encrypted audio and/or video content

Fast forward feature to provide with more time for commercial in 24 hours standard scheduled playlist for movie channels purposes

Grayscale option per output

FEATURES

- Compatible with a vast variety of compression types: MPEG-2, DV, DVCPro, DVCPro HD, AVC/H.264, HAVC/H.265, XAVC etc.
- Supports a multitude of media containers: MPEG-2 program and transport streams, AVI, QuickTime, MP4, MXF, GXF, LXF etc.
- Seamless 4K playout with CG branding
- Collapsible playlist
- User definable interface
- Every clip in the playlist can be trimmed, edited or re-positioned
- Multi Parallel Output (MPO): enables the running of two or more outputs so that broadcasters can easily provide parallel outputs in any combination needed to deliver the content. SD/HD-SDI and IP streaming
- SMPTE2016-3 AFD Support
- Advanced time-based scheduling with automated conflict resolving
- Simultaneous video scaling of both live input and playlist output
- Mixing different media formats, frame rates and resolutions in a single playlist
- Ingest control for CaptureBox
- Playback of clips still being ingested
- Playlist order can be changed on-the-fly with commands like skip to next or jump.
- Built-in static and animated logos support
- Additional video transformations
- On-air subtitling, 3D side-by-side subtitling
- Closed caption playout support for EIA 608, EIA 708 and XDS
- Multi-channel multi-language audio playout
- Dolby Digital Plus and Dolby-E audio media playback and output
- Automatic audio routing and remapping based on audio language, type and other metadata
- Automatic Loudness Control
- Live sources from SDI, MPEG-2 TS (UDP/RTP), HTTP(S), RTMP, MMS(H) and YouTube
- SCTE 104/35 generetion for commercial insertion
- SCTE-104 Decoder for Digital Program/Commercial Insertion (optional)
- UDP/RTP/RTMP stream output
- Metadata support for text-rich graphics insertion
- Detailed playout log (AsRun log, System log)
- Live Show Clipboard for on-the-fly event and live stream insertion
- Third party devices control (video routers, video mixers, DTMF, GPI, etc.)
- Remote playout control through VDCP, GPI, DTMF, Network API, etc.
- Playout SDK.
- Redundant Playout



SPECIFICATIONS

Video

Compression Format	MPEG2, DV, HDV, WMV/VC-1, MPEG1, MPEG4, AVC/H.264, DVC Pro, JPEG 2000, AVC-Intra, Apple ProRes 422, DVCPro50, DVCPro HD, HAVC/H.265 PAL / NTSC / 1080i HD / 720p HD / 1080p HD / 4K UHD
Bitrate	1 - 15 Mbit/sec in MPEG2 MP@ML • 10 - 50 Mbit/sec in MPEG2 422P@ML 1 - 80 Mbit/sec in MPEG2 MP@HL • 25 Mbit/sec with HDV and DV up to 80Mbit/s MPEG2 HD HP@HL • up to 40Mbit/s AVC/H.264 Baseline/Main up to 80Mbit/s AVC/H.264 Main/High • class 50 and 100 AVC-Intra
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, 4:2:0 - WMV and AVC 4:2:2 - Apple ProRes, 4:2:0 - AVC - Intra

Audio

Compression Format	MPEG audio Layer 1 or 2, AAC audio, Uncompressed PCM, Windows Media Audio, Dolby Digital (AC3)
	64-384 Kbit/sec
Sampling	48 kHZ

Media File Format

MPEG2 MPG or M2P	Program Streams, M2T or TS - Transport Stream (SPTS and MPTS)
DV	OpenDML AVI and WAV (mono and stereo), QuickTime, MXF, GXF
HDV	DV OpenDML Type 1 and Type 2 AVI, QuickTime, Raw DV, MXF, GXF
H.256/HEVC	HDV MPG or M2T / TS - Transport Stream, QuickTime, MXF, GXF
H.264/AVC/MPEG4 p 10	HAVC/H.265 Transport Stream, QuickTime
WMV / VC-1	Transport Stream (SPTS and MPTS), QuickTime, MXF
MPEG1 MPG	WMV
	System Stream

Video Boards

CPU	DeckLink Duo; DeckLink 4K Extreme; DeckLink 4K Pro; DeckLink 4K Extreme;
	DeckLink SDI 4K; DeckLink Studio 4K;
RAM	Corvid 3G; Corvid 11, Corvid 22, Corvid 44; Corvid 88;
	Delta-3G-elp-11, Delta-3G-elp-22, DELTA-3G-elp-key 11, DELTA-3G-elp-key 22
HDD	

AirBox

The strenght of stream