



# ATHENSA PLAYOUT

Versatile in Nature

Running as a stand-alone solution or in a Channel-in-a-Box configuration, ATHENSA PLAYOUT provides the necessary playout automation processes, needed in today's broadcast facilities. Its modular architecture makes it suitable not only for broadcasting organizations of any size but for media professionals who need seamless content playout automation. Available in UHD/HD/SD-SDI or IP streaming, ATHENSA playout secures unattended

## Main Features

- Seamless 4K playout with CG branding (It is hardware dependent on the broadcast board used)
- Collapsible playlist
- K-playlist: graphically represents the playlist items based on their duration relative to the playlist duration
- User definable interface
- Every clip in the playlist (except the one which is currently playing) can be trimmed, edited or re-positioned
- Multi Parallel Output (MPO): ATHENSA PLAYOUT 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 (with real-time rescaling) and IP streaming
- Multi-channel multi-language audio and subtitling capabilities
- Loudness control
- Simultaneous video scaling of both live input and playlist output
- Mixing different media formats, frame rates and resolutions in a single playlist
- Playback of clips still being ingested
- Playlist 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 products are facilitated by the powerful Live Show Clipboard which allows insertion and/or execution of various events or live streams
- For automated playout ATHENSA PLAYOUT allows fixed-time scheduling of items inside playlist for weeks ahead.
- Third party device control
- Detailed Playout Log
- Can be controlled by external automation via:
  - GPI or DTMF
  - VDCP
  - ATHENSA PLAYOUT SDK.
- NewTek NDI support

## New Features

- Multi-channel CPU consumption optimization resulting in the seamless running of multiple instances together in a single Core i7 CPU, while also providing both SDI and IP Unified streaming outputs
- Support of audio-only content making it a perfect playout automation for radio, music and info channels
- Support of encrypted audio and/or video content
- Fast forward feature to free additional time for commercial in 24 hours standard scheduled playlists in movie channels
- Grayscale option per output
- Adjustable global color option
- RTMP streaming input
- Selectable "disable" or "enable" Video, Audio and CC streams per output
- Many long-term stability and feature improvements fixes.



## Specifications

- ATHENSA PLYOUT supports MPEG1/2/H.264, HDV and DV streams from virtually every known production platform providing AVI, MPEG, WMV, Quick Time or MXF content. Files from third-party servers such as Leitch or Seachange are natively supported.
- Dolby Digital Plus and Dolby-E audio media playback and output (optional).

### Video

|                |   |
|----------------|---|
| Compression    | MPEG2, WMV/VC1, MPEG1, MPEG4, AVC/H.264, JPEG 200, AVC-Intra, Apple ProRes 422, DV, HDV, DVC Pro, DVCPro 50, DVCPro HD  |
| Format         | PAL • NTSC • 1080i HD • 720p HD • 1080p HD  |
| Bitrate        | 1-15 Mbit/s in MPEG2 MP@ML; 1-50 Mbit/s in MPEG2 422P@ML; 1-80 Mbit/s in MPEG2 MP@HL; 25 Mbit/s with HDV and DV; up to 80 Mbit/s MPEG2 HD HP@HL; up to 40 Mbit/s AVC/H.264 Baseline/Main; up to 80 Mbit/s AVC/H.264 Main/High; class 50 and 100 AVC-Intra |
| Color sampling | 4:2:0 – MPEG Main Profile (incl.HDV); 4:2:2 – MPEG2 4:2:2 Profile; 4:2:0/ 4:1:1 – DV 25 Mbit/s; 4:2:0 – WMV and AVC; 4:2:2 – Apple ProRes; 4:2:0 – AVC-Intra  |

### Audio

|                      |  |
|----------------------|--|
| Compression          | MPEG audio Layer 1 or 2; AAC audio; Uncompressed PCM; Windows Media Audio; Dolby Digital (AC3) |
| Bitrate (MPEG audio) | 64-384 Kbit/sec  |
| Sampling             | 48 kHz   |

### Media File Formats

|                             |   |
|-----------------------------|---|
| MPEG2                       | MPG(Program Stream); M2P(Program Stream); M2T (Transport Stream); MXF; GXF TS (Transport Stream); Open DML AVI and WAV (mono and stereo); Quick time; |
| DV                          | OpenDML Type 1 and Type 2 AVI; QuickTime; DV; MXF; GXF  |
| HDV                         | MPG (Transport Stream); M2T/ TS (Transport Stream); QuickTime; MXF; GXF   |
| H.264 / AVC / MPEG4 part 10 | TS - Transport Stream (SPTS and MPTS)   |
| WMV / VC-1                  | WMV   |
| MPEG1                       | MPG - System Stream   |

### Supported Video Boards

|           |   |
|-----------|---|
| DeckLink  | DeckLink Duo; DeckLink 4K Extreme; DeckLink 4K Pro; DeckLink 4K Extreme; DeckLink SDI 4K; DeckLink Studio 4K; |
| AJA       | Corvid 44; Corvid 88;   |
| DeltaCast | MPG (Transport Stream); M2T/ TS (Transport Stream); QuickTime; MXF; GXF                                       |

### Minimum System Requirements

Product functionality may vary based on your system configuration. Some features may require advanced or additional hardware.

|     |  |
|-----|--|
| CPU | Single Intel Core i7 CPU; Dual Intel Xeon CPU                      |
| RAM | 16 gigabyte (GB) RAM (single CPU); 32 gigabyte (GB) RAM (dual CPU) |
| HDD | 500 MB available hard disk space for installation                  |

### Minimum System Requirements

|         |  |
|---------|--|
| Athensa | SUPERMICRO SINGLE CPU server, SUPERMICRO DUAL CPU server |
| HP      | Hpz230, HPz640, HPz840                                   |

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