AirX

Integrated mission critical Playout
Broadcast Automation System

AirX   AirX Record   AirX Media

AirX

AirX integrated mission-critical playout broadcast automation system, offering complete IP/SDI multi format flexibility with UHD/HD/SD support, delivering an end-to-end workflow ecosystem from ingest to compliance recording and media management. The system's high density, and rock-solid reliability further reduces operating expenses while providing high availability.

As a software-based ecosystem, AirX™ may be deployed on premise, in the cloud or in a hybrid environment. The architecture affords speedy deployment and ease of launching new channels and services.

This in turn translates to reduced total cost of ownership and provides a cost-effective means of introducing new revenue streams through different mediums such as OTT, social media, broadcast, mobile or any other platform.

AirX enables you to broadcast multi-format, multichannel UHD 4K, HD, SD with frame accuracy. The system has built-in low latency switching/routing of input and output signals and full remote operational workflow. Encode/transcode multiple outputs per channel in NDI, ST2110, SRT, UDP, RTMP, HLS, MPEG-Dash.

Key Features

- Real-time Broadcast Monitoring and Visualization
- Control DVB, Terrestrial, Cable, DTH, IPTV and OTT networks
- Visual and instrumental monitoring and control of all components
- Distributed architecture built around remote operations
- Mosaics are available remotely via HLS, SRT, NDI or UDP

- Ability to monitor remotely any stream in full resolution
- Detailed Reporting and Analysis (SLA)
- Detailed graphing and video analysis tools
- Monitor any non-broadcast components such as routers, switches etc. (API, SNMP)
- Logical service level chain views

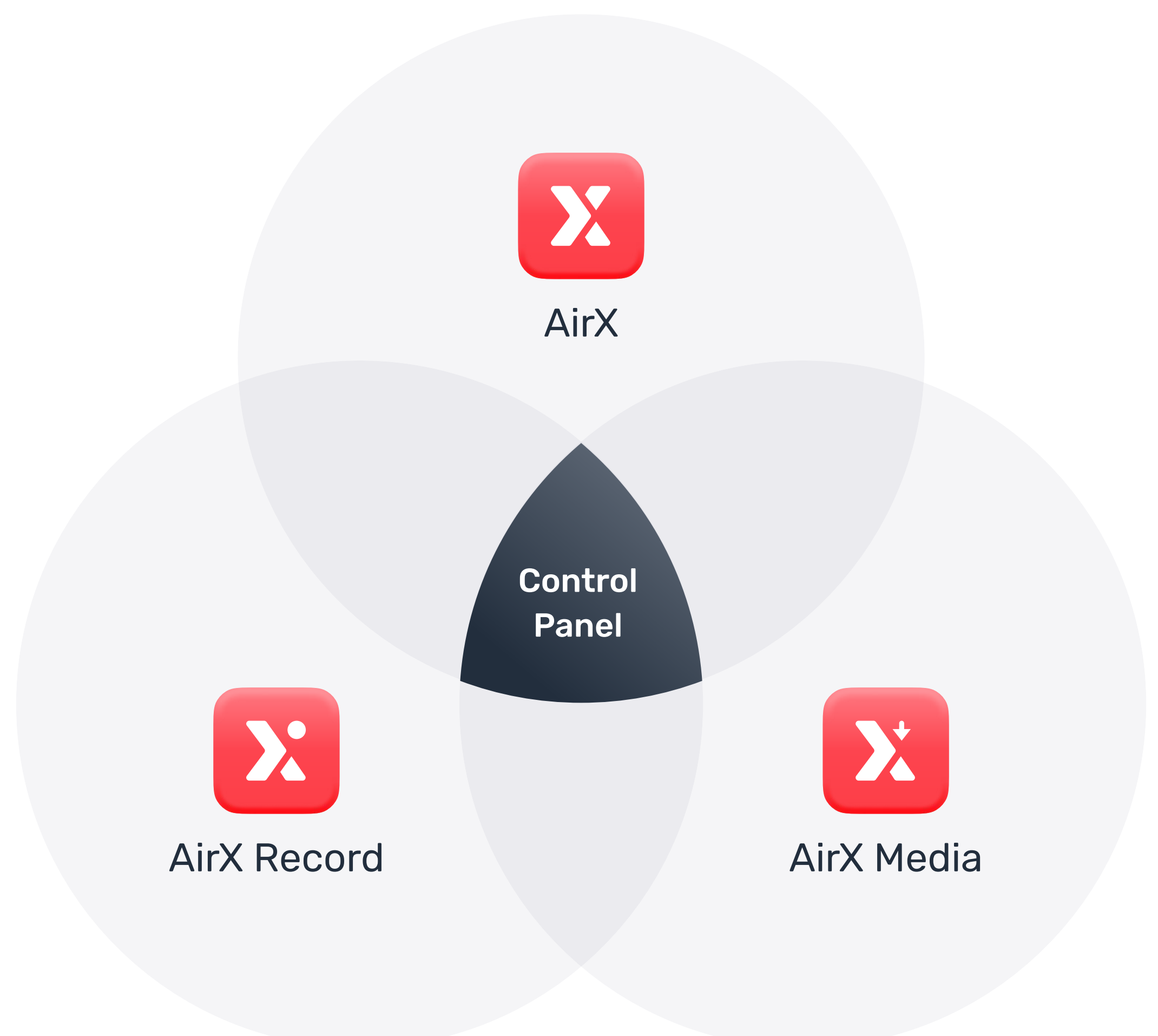## Unified Broadcast Ecosystem

AirX

Multi-format TV broadcast automation system

AirX Record

Automated Multichannel ingest recording system

AirX Media

Media content automation system

AirX

Control Panel

AirX Record

AirX Media

Highlights

Hybrid broadcasting

Ideal for broadcasters who currently use SDI and ready to try IP broadcast with SMPTE ST 2110, NDI, TS.

Subtitle Solution

Create subtitles of up to 8 languages per channel simultaneously. Support subtitle files in SRT, STL formats. Includes the in-built subtitle editor application, for *.srt creation and express editing. Output subtitles may be generated in the following formats: OP-42/47, EIA-608/708 and DVB Subtitle.

Operations with schedules and external sources

Create subtitles of up to 8 languages per channel simultaneously. Support subtitle files in SRT, STL formats. Includes the in-built subtitle editor application, for *.srt creation and express editing. Output subtitles may be generated in the following formats: OP-42/47, EIA-608/708 and DVB Subtitle.

Automated content Ingest

Automated media content ingest with emergency media file playback from external storage sources.

Advanced channel design graphics

A convenient application for channel design allows you to use almost an unlimited number of animation layers and dynamically updated text Up to 16 DSK overlay graphics: 8 DSK in automatic mode and 8 DSK in manual mode. Dedicated additional DSK layer for logo overlay. User-friendly WEB-interface for dynamic text editing.

Integrated monitoring

Integrated real-time monitoring for all automation services: input/output interfaces, broadcast channels and connected external devices.

Resilience and redundancy

A unique redundancy mechanism based on independent and synchronous operation of broadcast servers with unified management from a single client application.

Redundancy

Comprehensive redundancy mechanism with automated failover that synchronizes media content ingest and backup broadcast servers within a single unified client application.

Main scheduling application (Channel Manager)

- Local or remote user interface for broadcast operations with multiple simultaneous users
- User authorization and user rights management for each individual channel
- Flexible user interface with support for multiple windows and multiple monitor setups
- Different operating modes: looped playlist, scheduled playback
- Pre-scheduling and live editing
- Support for DTMF, SCTE 35/104, GPI
- Player for verifying content creation and subtitle overlays
- Channel graphic design and live graphic scene output verification
- Use incomplete recorded files in playlist

Server configuration

- Remote storage support (NAS, SAN, DAS, S3...)
- Multiple file format support
- Input signals support from different hardware
- Channel output signals may be routed to various hardware devices
- IP output support
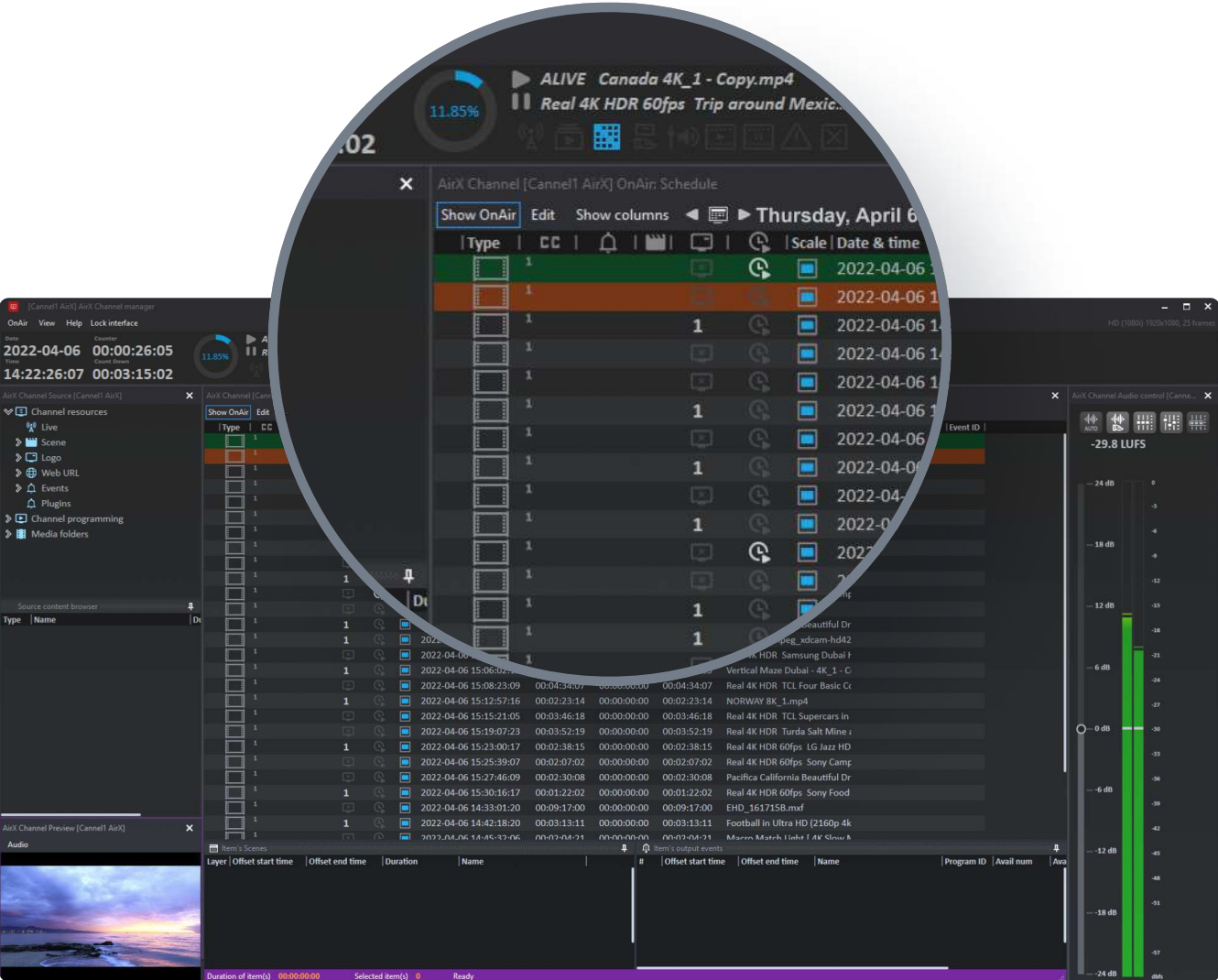- Ability to route one input signal on multiple channels with different settings for each channel

- IP and WEB broadcast in parallel with AV signal output, while adjusting bitrates and resolution
- Ability to visually monitor any input or output on the server in real–time

Included Computer Graphics engine

- Support for multi–layer graphic scenes
- Support for live inputs in PIP mode
- Text banners, crawl or rolling text, RSS news, text files and dynamic data updates
- Digital and analog clocks
- Full frame graphic animation
- Graphic design preview

Multifunctional Playout Server
# «Channels in a Box»

Input Interfaces

- SMPTE-2110 4K UHD
- NewTek NDI ®
- SD/HD/UHD-SDI (Embedded audio)
- Composite
- S-Video
- YUV
- Analog Audio: balanced/unbalanced
- IP TS (MPEG 2, AVC/H264, HEVC/H265)
- HDMI (576, 720, 1080, 2160)
- WEB RTMP
- RTSP
- HLS Multi-Bitrate
- MPEG-Dash
- Haivision SRT
- FILL+KEY graphics: SD/HD/UHD-SDI, NewTek NDI ®

Output Interfaces

- SMPTE-2110 4K UHD
- NewTek NDI ®
- SD/HD/UHD-SDI (Embedded audio)
- Composite
- S-Video
- YUV
- Analog Audio: balanced/unbalanced
- IP TS (MPEG 2, AVC/H264, HEVC/H265)
- HDMI (576, 720, 1080, 2160)
- WEB RTMP
- RTSP
- HLS Multi-Bitrate
- MPEG-Dash
- Haivision SRT

Input, output boards and decoders

- NVidia
- BlackMagic
- DekTec
- AJA
- BirdDog
- Intel
- Mellanox
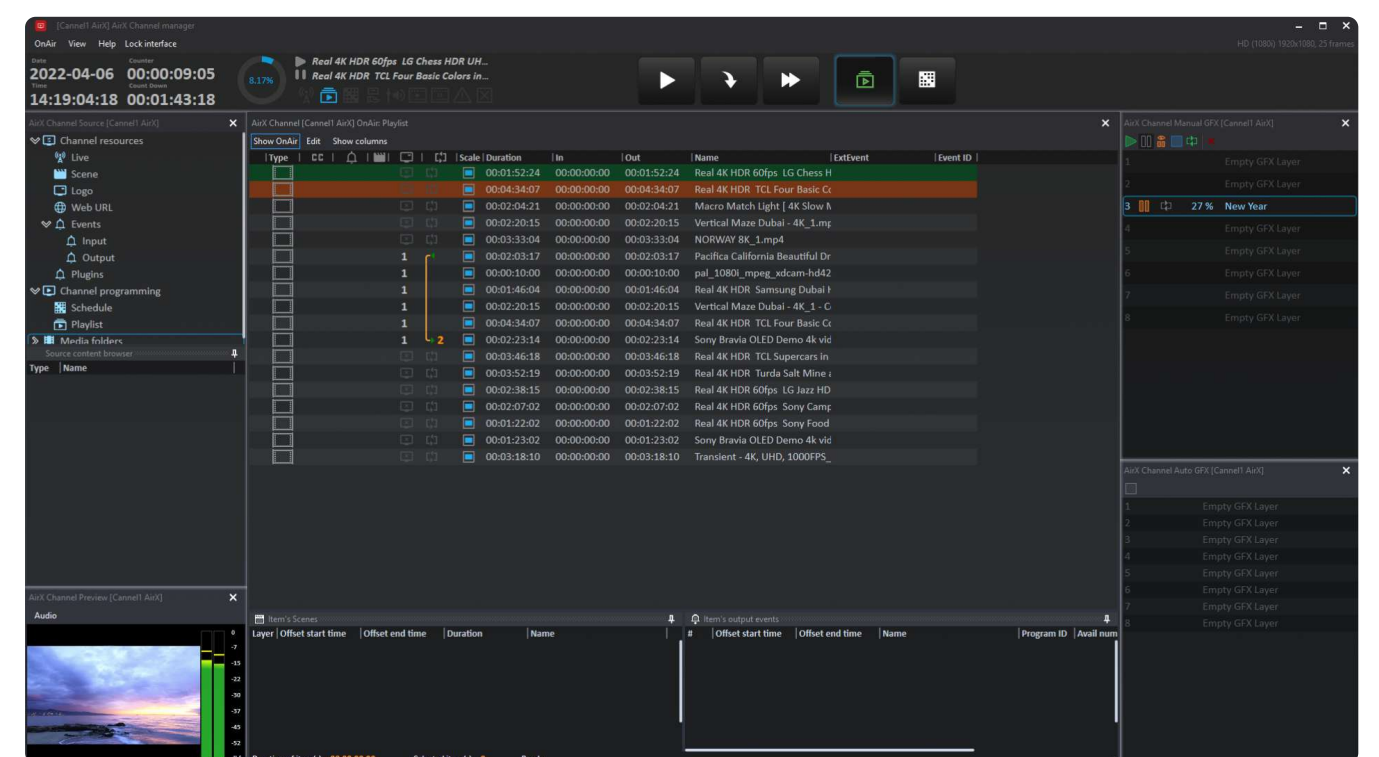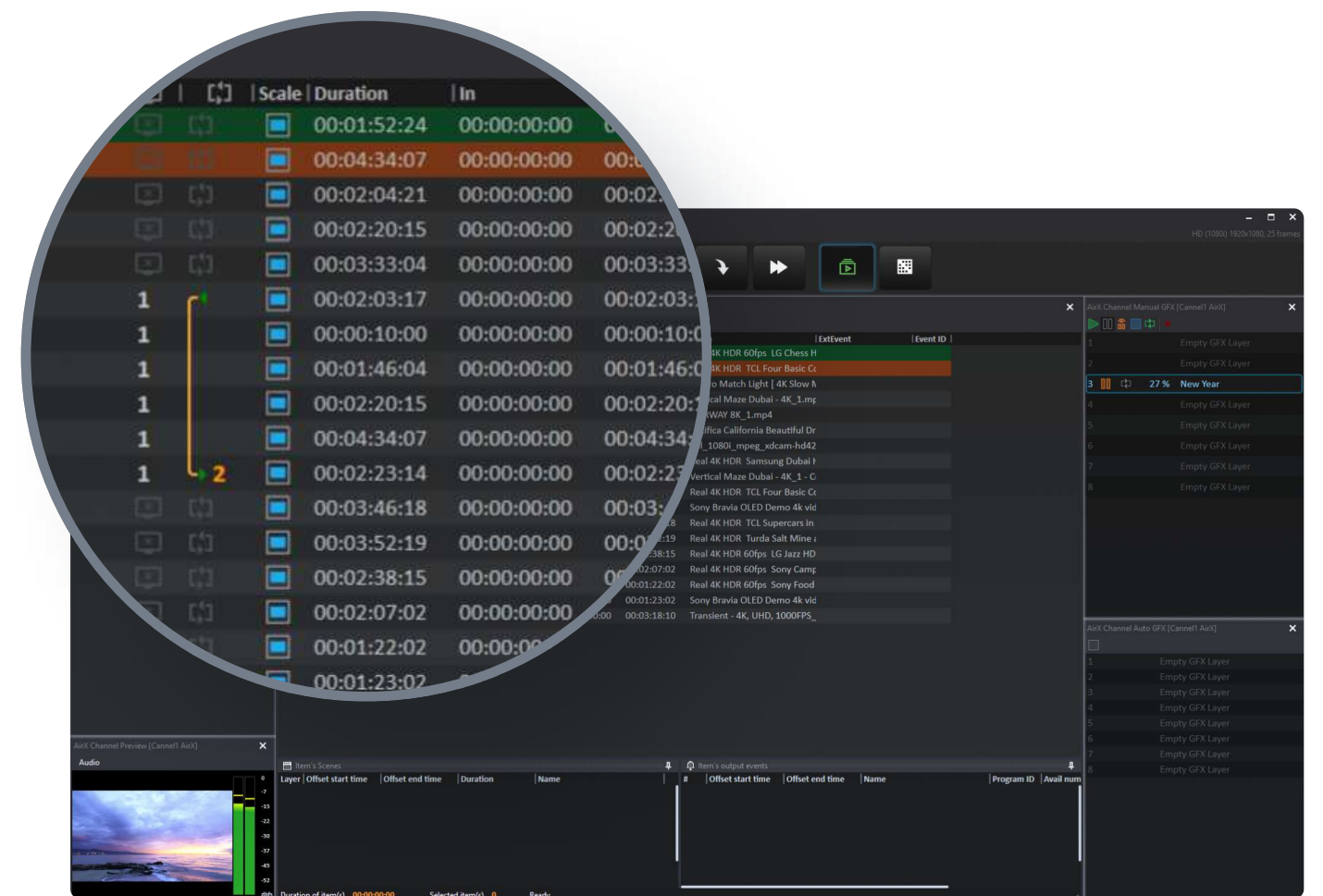
Formats, codecs and supported media files

Formats

AVI, MOV, MXF, MP4, MPG, BMP,
TGA, GIF, PNG, JPG, TIF

Codecs

- DVCAM
- DVCPRO25
- DVCPRO50
- DVCPRO100
- HDV
- IMX (30,40,50)
- XDCAM EX (SP, HQ)
- XDCAM HD (LP, SP, HQ)
- XDCAM HD422
- DNxHD (36,145,220)
- AVC/H-264
- MPEG2 GOP
- Apple ProRes

TELE STRIDER

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