

Jünger Audio flexAI with TVU MediaMesh®

AI-powered broadcast audio processing — real-time loudness management, intelligent automixing, and immersive audio workflows deployed natively within TVU MediaMesh.

AI-POWERED BROADCAST AUDIO PROCESSING

Broadcasters and content producers face compounding audio challenges: loudness inconsistency across platforms, the complexity of immersive and object-based audio workflows, manual overhead in live multi-source mixing, and the inability to scale audio processing dynamically in the cloud.

Jünger Audio flexAI with TVU MediaMesh solves this by embedding professional-grade, AI-assisted audio processing directly into the MediaMesh cloud production environment — delivering automated loudness compliance, intelligent automixing, and immersive audio workflows without deploying separate hardware infrastructure.

SOLUTION OVERVIEW

Jünger Audio flexAI

Software-defined audio processing platform — real-time loudness, dynamics, AI automixing, immersive audio, and NGA codec support. Deploys on hardware, server, or cloud.

TVU MediaMesh®

Cloud-first live media infrastructure for contribution, production, and distribution. flexAI integrates as the audio processing layer, delivering broadcast-grade audio natively within MediaMesh.

Together, Jünger Audio flexAI and TVU MediaMesh deliver broadcast-grade, AI-assisted audio processing as a native capability within cloud production workflows — eliminating separate audio infrastructure while maintaining standards compliance across every output.

DNN Loudness

AI Automix

Dolby® Atmos

MPEG-H

Film Grain

Cloud

HOW IT WORKS

1 Deploy via MediaMesh Marketplace

Jünger Audio flexAI runs as a cloud-native module within TVU MediaMesh. Access it directly via TVU as a subscription add-on — no modification to existing TVU infrastructure required.

2 AI-Powered Audio Processing Pipeline

Incoming audio passes through flexAI's processing chain: loudness management, JAIC Automixer intelligent mixing, dynamics, EQ, immersive processing, and NGA codec handling — all in real time.

3 Standards-Compliant Delivery

Processed audio is delivered to production, playout, or distribution endpoints — compliant with EBU R128, ATSC A/85, and ITU-R BS.1770-4 across every output.

4 Scale On Demand

Burst audio processing capacity during major live events using flexAIcloud on AWS, then scale back down — no additional hardware investment required.

AT A GLANCE

- Real-time loudness compliance (EBU R128, ATSC A/85)
- AI-powered JAIC Automixer
- Dolby® Atmos & MPEG-H 3D Audio
- Cloud-native on AWS
- Immersive 7.1.4-channel processing
- Modular plug-in licensing
- On-premises, cloud, or hybrid
- Daily or monthly subscription

JOINT HIGHLIGHTS

Complete Audio Workflow

Drop-in within TVU MediaMesh — no infrastructure change. Processes feeds between ingest and distribution transparently.

Purpose-Built for Live

Decades of dedicated broadcast audio R&D. Artifact-free processing that live sports and news demand.

Flexible Access

LIVE-FLEX (pay-as-you-go), LIVE-EVENT (annual committed hours), or LIVE-24x7 (per-channel). Available via MediaMesh Marketplace.

CONTACT

TVU Networks

info@tvunetworks.com
www.tvunetworks.com

Telos Alliance / Jünger Audio

www.telosalliance.com
www.junger-audio.com

SOLUTION USE CASES

Live News — Automated Loudness & Mix

JAIC Automixer balances all incoming sources, manages loudness to broadcast standards, and ensures dialogue clarity without a dedicated audio engineer for every cut.

Live Sports — Multi-Source Commentary

AI-powered host-priority logic and real-time level management across commentary, crowd, and field sources — delivering polished audio regardless of on-field conditions.

Remote Production (REMI) — Cloud Audio

Full-scale remote audio production without deploying hardware at the venue. Audio from TVU One or RPS is processed by flexAIcloud — studio-grade conditioning from anywhere.

Immersive Audio — Dolby® Atmos & MPEG-H

Complete immersive audio workflows within the cloud production environment. Author, monitor, encode, and deliver Dolby® Atmos or MPEG-H content from the TVU chain.

WHY IT MATTERS

AI-Native Audio Intelligence

The JAIC Automixer applies genuine machine learning-driven real-time analysis to continuously optimize multi-source mixes — a capability unavailable in any competing hardware-only audio processor.

True Any-Platform Flexibility

No other broadcast audio platform spans dedicated hardware, server-class processing, and full-featured cloud-native deployment with identical software, licensing, and workflows.

Native Cloud Scalability

flexAIcloud on AWS/MediaMesh enables broadcasters to scale audio processing capacity for major live events and back down immediately — fundamentally changing the economics of large-scale audio.

Decades of Broadcast-Proven Heritage

Jünger Audio's core algorithms have been refined through thousands of real-world deployments globally. flexAI brings this proven, artifact-free processing into a modern software-defined architecture.

WORKFLOW OVERVIEW — JÜNGER AUDIO FLEXAI + TVU MEDIAMESH®

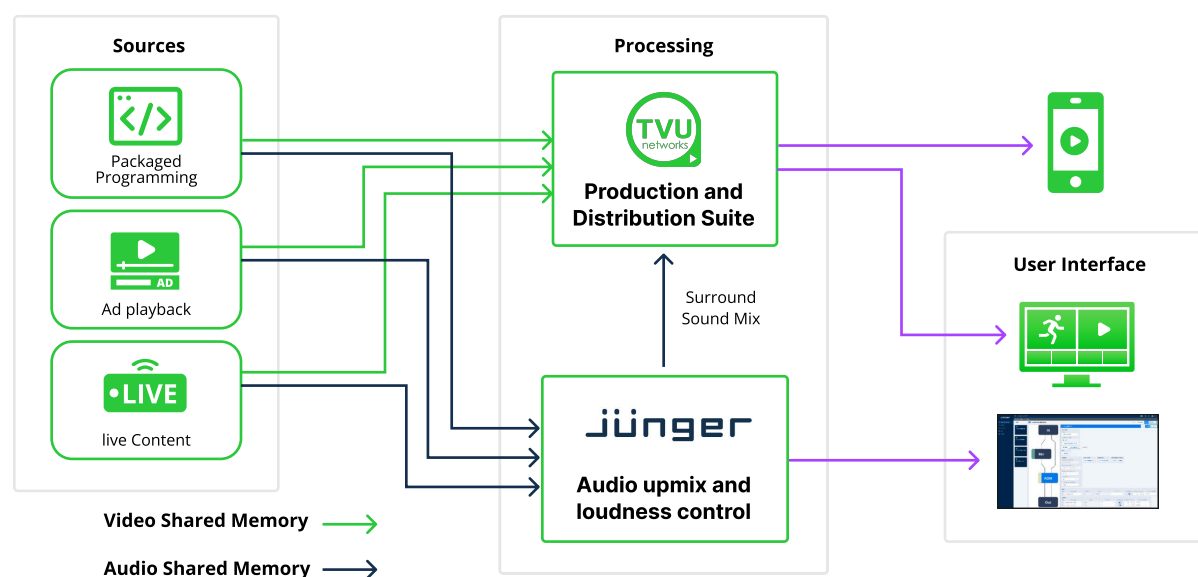


Fig. 1 — Jünger Audio flexAI integrates with TVU MediaMesh as a native audio processing layer. Live sources are ingested, processed with AI-powered loudness management, automixing, and immersive audio conditioning, then distributed to any destination — all within the cloud.