NVIDIA | INCEPTION PROGRAM MEMBER

www.tricube.ai

SyncWIZ

Broadcast Compliance Recording, Monitoring & Intelligence Platform

SyncWIZ Recording | SyncPlayer Web | StreamBeat Intelligence

16+ Channels	18+	Any Browser	< 2 min
Per server instance	Input protocols	Zero-install review	Intelligence refresh

Product Datasheet

TRICUBE



SyncWIZ is Tricube's GPU-accelerated broadcast compliance recording platform — built for TV broadcasters, OTT providers, and media regulators who cannot afford gaps in their compliance record. Every second of broadcast transmission is recorded continuously, with frame-accurate timestamps burned directly onto the video — the legally defensible standard required for regulatory proceedings, advertiser disputes, and legal actions.

Key Capabilities

Scalable Channel Count

Minimum 16 channels based on server specification and license purchase. Scale to 128+ channels by adding SyncWIZ instances on the same GPU server — no additional hardware appliances, no per-channel licence fees at expansion.

Multiple Encoding Profiles

Proxy quality for fast review and archive quality for legal evidence recorded simultaneously from the same ingest. One capture, two outputs.

Frame-Accurate Timestamps

Date and time burned directly onto video — embedded in the file, inseparable from content. Legally defensible proof of what aired, on which channel, at which exact moment.

Scheduled & Continuous Recording

Play-while-record, scheduled recording across all channels simultaneously, stream validation before recording, and file recovery for interrupted 24/7 sessions.

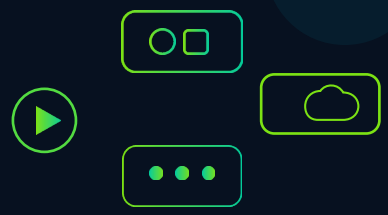
Supported Codecs & Formats

H.264 NVENC, H.265 HEVC NVENC, AV1. Formats: MXF, MP4, MOV, AVI, MKV, MPEG-TS. Audio: AAC, AC-3 Dolby Digital, MP2, MP3, direct stream copy.

HDR Support

Full HDR support for HLG and PQ metadata. NVIDIA RTX 5000 series 4:2:2 encoding and decoding.

Supported Input Sources



SDI	RTMP	UDP
HDMI	HLS	MPEG-DASH
NDI	SMPTE ST2110	Web Capture
SRT	RTSP	YouTube Live

Supported Hardware Capture Cards

AJA VIDEO SYSTEMS

Blackmagicdesign

bluefish444 THE PROFESSIONALS' CHOICE

DELTACAST VIDEO SOLUTIONS FOR DEVELOPERS

MAGEWELL®

YUAN

SMPTE ST 2110

Native IP Broadcast Infrastructure Support

SMPTE ST 2110 is the professional standard for transporting uncompressed video, audio, and ancillary data over IP networks in modern broadcast facilities. SyncWIZ accepts ST 2110 as a native first-class input — alongside SDI, NDI, SRT, and every other supported source — without requiring intermediate conversion hardware at any point in the signal chain.

Legacy Compliance Recorders	SyncWIZ Native ST 2110
⊗ Requires intermediate SDI converter hardware at every input	✓ ST 2110 stream received directly from facility network — no converter
⊗ 16 channels =16 converter appliances to rack, power and maintain	✓ ST2110-20 video, ST2110-30 audio, ST2110-40 ancillary data all native
⊗ Additional latency between ST 2110 source and compliance record	✓ Configured exactly as any source: IP address, port, stream parameters
⊗ Recorded file is a converted version — not a direct ST2110 capture	✓ Full GPU processing pipeline — decode, scale, timestamp, encode on GPU
⊗ Per-channel hardware cost scales with every additional channel	✓ Scale to any channel count — no hardware procurement at expansion

ST 2110 Processing Pipeline in SyncWIZ

1 ST2110 Ingest

Receives ST2110-20 video, ST2110-30 audio, ST2110-40 ancillary data directly from facility network. No converter hardware.

2 GPU Decode

ST2110 signal enters NVIDIA/Intel/AMD GPU pipeline. Reduced CPU overhead. Higher channel density per server.

3 GPU Processing

Format conversion, resolution scaling, timestamp burn-in on GPU. Legally defensible evidence embedded.

4 GPU Encode

NVENC / QuickSync / AMD hardware encoding. Proxy + archive quality simultaneously from one ST2110 ingest.

5 Archive Storage

Structured compliance archive with source, date, time, timecode in every filename. Retrieval via SyncPlayer Web.

ST 2110 — Supported Hardware

AJA VIDEO SYSTEMS · Blackmagicdesign · bluefish444 THE PROFESSIONALS' CHOICE · DELTACAST VIDEO SOLUTIONS FOR DEVELOPERS

ST 2110 recording is supported alongside SDI sources from the above manufacturers simultaneously — mixed infrastructure recording in a single compliance session on a unified synchronised timeline.

Mixed Infrastructure Example

8 SDI channels + 4 NDI channels + 8 ST 2110 channels = **20 channels simultaneously** from a single SyncWIZ deployment. One archive. One synchronised timeline. One browser-based review interface.

SyncPlayer Web

Browser-Based Compliance Review

Recording without accessible retrieval is not a compliance system. SyncPlayer Web turns the SyncWIZ archive into an operational tool that any authorised team member can access from any device, from any location, at any time — with zero software installation required.

Zero Installation

Any authorised user opens a standard browser — desktop, laptop, tablet, or mobile — enters credentials, and has immediate access to the complete recorded archive.

Synchronised Multi-Channel Playback

All channels play simultaneously in a synchronised multiviewer on a unified timeline. Scroll, zoom, and drag to navigate. Per-channel enable/disable without disrupting sync.

Variable Speed Scrubbing

Playback from x1 through x32 speed — efficient review of long recordings without losing frame accuracy when precision matters.

Authenticated Access

Username, password, server configuration, and session expiry all configurable. Every access to the archive is traceable.

Evidence Retrieval in Minutes

Navigate to any date, channel, and time. Timestamped recording visible within minutes of a regulator request — not hours.

Included at No Additional Cost

SyncPlayer Web is included with every SyncWIZ deployment from day one.

StreamBeat

Real-Time Competitive Intelligence

StreamBeat is Tricube's real-time YouTube competitive intelligence platform — purpose-built exclusively for 24/7 Television broadcasters. Live viewer ratings, audience sentiment, and bot detection — updated every 2 minutes, around the clock, on a broadcast-style dashboard designed to run permanently on studio monitor walls.

Live Ratings Board

Polls every tracked YouTube channel every 2 minutes. Ranks all channels by live viewer count with TV-style animations. Your market share calculated in real time.

16-Channel Multiviewer

Watch up to 16 live YouTube channels simultaneously. Drag-and-drop layout designer. Per-channel audio, fullscreen, and manual refresh.

AI Sentiment Engine

Processes thousands of live chat comments automatically — classifying audience emotion in any language worldwide, with results in under 60 seconds.

5-Tier Bot & Spike Detection

Distinguishes genuine breaking news audiences from artificial inflation. Time-aware intelligence with lighter thresholds during organic morning ramp-up.

Stream Analytics

Full viewer count history, sentiment breakdown, peak detection with configurable date ranges — minute, hourly, or daily granularity.

Platform Note

Tricube provides live YouTube viewer count data and live chat monitoring. AI sentiment features require third-party AI API keys (OpenAI / Google Gemini) procured by the customer.

Tricube Broadcast Private Limited

GPU-Accelerated Broadcast Infrastructure Software

Tricube Broadcast Private Limited is a Kochi-based broadcast technology company with over 15 years of combined broadcast software development experience. Founded in 2018 and headquartered at Infopark Phase 2, Kochi, Kerala, Tricube is an **NVIDIA Inception Program member** — building GPU-accelerated broadcast infrastructure software that replaces traditional hardware appliances with software-defined solutions running on NVIDIA GPU hardware.

Tricube products are deployed at broadcast networks across India, the United States, Canada, Latin America, the Middle East, and Europe. Tricube attends IBC Amsterdam and NAB Show annually.

Full Product Portfolio

SyncWIZ	GPU-accelerated broadcast compliance recording and monitoring
SyncPlayer Web	Browser-based compliance archive review — zero installation
StreamBeat	Real-time YouTube competitive intelligence for broadcasters
BridgeWIZ	Real-time video gateway — SRT, NDI, ST 2110, replaces hardware rack

StreamCaster	Encoder/decoder with central control
PlayWIZ Cloud	AI-powered cloud playout platform
BlinkWIZ	Real-time live clipper for social media
CGCaster	Live CG graphics engine for broadcast
CGWiz	HTML CG editor and player — browser-based live graphics creation and playout

Contact Tricube

TRICUBE BROADCAST PRIVATE LIMITED

Get in Touch

SyncWIZ, SyncPlayer Web, and StreamBeat are products of Tricube Broadcast Private Limited. NVIDIA and the NVIDIA logo are trademarks of NVIDIA Corporation. Blackmagic Design and DeckLink are trademarks of Blackmagic Design Pty Ltd. AJA is a trademark of AJA Video Systems. NDI is a registered trademark of Vizrt Group. SMPTE ST 2110 is a standard of the Society of Motion Picture and Television Engineers.

TRICUBE

Tricube Broadcast Pvt Ltd
SEZ R&D Unit Tower 1,
10-C/M02 Trans Asia Cyber Park
Infopark Phase 2, Infopark SEZ,
Phase II Kakkanad, Kochi, 682303

www.tricube.ai
finance@tricube.ai