



### Compact 1 RU Profile for Broadcast Video

The Streambox® SBT3-5200 Video Transport system is a true 24/7 plug-and-connect live and file-based video transport solution that delivers stunning full-motion, full frame interlaced broadcast video and audio over satellite and IP-based networks. Streambox® ACT-L3™ systems excel over low bandwidth connections while providing unrivaled video compression and quality.

With a compact 1-RU profile, the SBT3-5200 is ideal for use in live news broadcasts, distribution to cable head-ends, integration into news trucks, and other video delivery applications where small size, high reliability, superior performance, and low power requirements are important.

The SBT3-5200 model supports genlock and features composite SD-SDI inputs with embedded, balanced, and AES audio. The encoder's half duplex mode also enables it to be used as a decoder with multiple SDI and composite outputs.

The system relies on the Streambox® ACT-L3™ technology already widely used by news organizations worldwide and adds the benefit of a smaller, lighter weight chassis. All ACT-L3™ systems, including the SBT3-5200, are extremely energy efficient and include a robust error correction feature set. With adjustable latency, user-configurable presets, and seamless local or remote management, the SBT3-5200 is a truly flexible video transport solution.

#### Solution Overview

The SBT3-5200 Video Transport system provides best-of-class performance and reliability due to its unrivaled video compression and error correction technologies. The system also enables broadcasters and cable operators to leverage the store and forward option which provides enhanced storage, management, and transmission of video over packet-based networks.

#### Streambox® ACT-L3™ Codec

The ACT-L3™ codec features an advanced proprietary video compression technology optimized for interlaced video. It is developed specifically for broadcast video and provides more efficient compression than MPEG and H.264. ACT-L3™ is highly adaptable to differing data rate requirements.

The robust family of ACT-L3™ Video Transport solutions features innovative error correction and bandwidth shaping technologies which enable users to

manage, control, and mitigate packet loss and correct irregularities common to video delivery over packet-based networks.

#### Solution Reliability

The SBT3-5200 system is designed for 24/7 unattended use. Features include:

- Video and audio signal re-connect upon signal loss
- Encoder/decoder restart in case of video/audio irregularities, large packet loss or extended signal loss.
- Immediate system restore, upon power outage or system reset

#### Solution Features

- Unrivaled video compression and quality at low data rates
- 4:2:0 and 4:2:2 color profiles
- Best-of-class performance and reliability with advanced networking features
- Advanced forward error correction and burst error protection.

#### Target Markets and Applications

- Backhaul video transport
- Digital newsgathering
- Satellite video transport
- Newsgathering trucks
- Point-to-point and point-to-multipoint video distribution
- Law enforcement
- Surveillance and security
- Centralcast television
- Telemedicine
- Online and distance learning

#### Streambox Platform Solutions

- ACT-L3™ Encoder(s) and Decoder(s)
- Streambox® Broadcast Server
- Streambox® Distribution Server
- ACT-L3™ Full Duplex
- Streambox® Store and Forward and Play-out

- Low end-to-end latency. Provides adjustable latency for video conferencing or broadcasting
- Seamless local or remote system management
- Optional store and forward feature for enhanced storage, management, and transmission of video over packet-based networks
- Half duplex mode (encoder only) is provided for easy switching between encoder and decoder modes
- User friendly back panel access to video and audio ports
- User configurable presets for quick and flexible setup

## Technical Specifications

Video Formats:	NTSC/60i, PAL/50i
Video Encoding:	Resolution: D1, 3/4, 2/3, 1/2, CIF, QVGA Frame rate: full, 3/4, 1/2, 1/3, 1/4, 1/5, 1/10
Audio Codecs:	AAC, GSM, and CELP Up to 64 Kbps per channel 44.1 or 48 KHz sampling rate
Streaming Rate:	User selectable from 64 Kbps to 8 Mbps
Audio Inputs:	2-ch SDI, 2-ch AES, 2-ch Analog XLR
Audio Outputs:	2-ch SDI, 2-ch AES, 2-ch Analog XLR
Closed Caption:	Line 21 encoding, transmission, and decoding, V-ANC
Video System:	D/A and A/D. Time-Base Correction for analog video. Genlock. Audio embedding/de-embedding
Video Inputs:	Composite, SDI (SMPTE-259M), Genlock
Video Outputs:	Composite, SDI (SMPTE-259M), Genlock
Encoding Latency:	Adjustable from 200 ms to 10 seconds
Video Post Filtering:	Advanced interlaced/progressive post filtering, including de-blocking, de-mosquito, and anti-aliasing
Video Pre-filtering:	Noise pre-filter, adjustable de-interlacing
Network Interfaces:	Ethernet
Network Protocol:	Multicast/unicast UDP and IP
Setup & Control:	Front access LCD panel and keypad. Solid-state Compact Flash storage for reliability and upgrades. VGA output, USB ports
Forward Error Correction:	Adjustable, 0% to 50% Reed-Solomon, Parity, Shuffle
Options:	Store and Forward
Dimensions:	1 RU 1.75"H x 18.75"W x 17.5"D 4.4cm H x 47.6cm W x 44.5cm D
Weight:	17 lbs, 7.7 kg

## About Streambox, Inc.

Streambox provides a single platform for live and file-based video transport and acquisition over IP. The platform comprises clients - from small form factor mobile devices and laptops - to rule-based video management and play-out systems.

The company's scalable solutions, based on the innovative ACT-L3™ codec, can be integrated into all IP-centric broadcast and broadband operations.

Learn more at [www.streambox.com](http://www.streambox.com).



[www.streambox.com](http://www.streambox.com)

sales@streambox.com  
+1 206.956.0544 Ext. 222