



## Streambox® SBT3-7500 Video Transport



### Compact Real-time Video Encoding for Mobile News Gathering

The Streambox® SBT3-7500 Video Transport solution builds on our family of 24/7 plug-and-connect real-time video transport systems that deliver stunning full-motion, full frame interlaced broadcast video and audio over satellite and IP-based networks.

The Streambox® SBT3-7500 ACT-L3™ encoder is integrated in one compact device with an ultra low power requirement which makes it ideal for mobile news gathering applications. The SBT3-7500 gives the user ultimate flexibility in terms of mobility without sacrificing video compression and quality. The ability to gather, edit, and transmit high quality live video, even from the most challenging locations, provides field reporters with ultimate flexibility when reporting and delivering breaking news.

Performance, reliability, and low end-to-end latency are hallmarks of Streambox solutions. These features ensure unrivaled video quality at low data rates for a wide range of applications including live news gathering, emergency response, and mobile command centers for the armed forces.

#### Solution Overview

The SBT3-7500 Video Transport solution provides best-of-class performance and reliability due to their unrivaled video compression and error correction technologies. The systems also enable broadcasters and cable operators to leverage the store and forward option which provides enhanced storage, management, and transmission of video over packet-based networks.

The SBT3-7500 solution is a compact yet full featured encoder for all mobile video transport needs. It features professional digital and analog video and audio interfaces.

#### Streambox® ACT-L3™ Codec

The ACT-L3™ Codec features an advanced proprietary video compression technology optimized for interlaced display systems. ACT-L3™ matches MPEG-2 video quality up to a 75% lower data rate and it is up to 50% more efficient than MPEG-4. The ACT-L3™ Codec is adaptable to differing data rate requirements with constant bit rate and variable bit rate modes.

The robust family of ACT-L3™ Video Transport solutions features innovative error correction technologies and bandwidth shaping technologies which enable users to manage, control, and mitigate packet loss and correct irregularities inherent in video delivery over satellite and IP/T1/E1 networks.

#### Solution Reliability

- 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
- Dual Ethernet
- Multi-channel audio
- Best-of-class performance and reliability with advanced networking features
- Advanced forward error correction and burst error protection.

#### Target Markets and Applications

- Live news gathering
- Satellite video transport
- Backhaul video transport
- Emergency response
- Armed forces operations
- Mobile command centers
- Law enforcement
- Online and distance learning
- Telemedicine
- Surveillance and security
- Centralcast television
- Video Conferencing
- Point-to-point and point-to-multipoint video distribution

#### Solution Package and Options

- ACT-L3™ Encoder(s) and Decoder(s)
- Streambox® Broadcast Server
- Streambox® Distribution Server
- Streambox® IFB Server and Client
- ACT-L3™ Full Duplex
- Streambox® Store and Forward and Playout
- ACT-L3™ for Apple QuickTime®
- Low end-to-end latency. Provides adjustable latency for video conferencing or broadcasting
- Cost-effective news gathering and video conferencing
- Seamless local or remote system management decoder modes
- Optional store and forward feature for enhanced storage, management, and transmission of video over packet-based networks
- User configurable presets for quick and flexible setup
- Optional vehicle DC adapter

## 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-channel XLR or AES, 6-channel SDI
Closed Caption:	Line 21 encoding and transmission
Video System:	Time-Base Correction for analog video. Audio embedding
Video Inputs:	Composite, SDI (SMPTE-259M) DV via Firewire IEEE 1394
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:	Dual Ethernet
Network Protocol:	Multicast/unicast UDP for IP
Setup & Control:	Front access LCD panel and keypad. VGA output, USB ports
Forward Error Correction:	Adjustable, 0% to 50% Reed-Solomon, Parity, Shuffle
Options:	Store and Forward
Dimensions:	One encoder measuring 2.5"H x 12"W x 13"D 6.35cm H x 30.48cm W x 33.02cm D
Weight:	9.8 lbs, 4.45 kg

## About Streambox, Inc.

Streambox manufactures a complete line of video transport and news gathering solutions used by broadcasters, government agencies, and enterprises worldwide.

We provide best-of-class encoding, decoding, and transmission over IP and satellite networks for all real-time and store and forward applications.

Learn more about our products and solutions at [www.streambox.com](http://www.streambox.com).

## Customers Include:

AOL  
American Red Cross  
Bell Canada  
BELO  
British Sky Broadcasting  
CBS  
CNN  
Comcast  
Department of Homeland Security  
DirecTV  
Gannett  
Japan Leisure Channel  
Media General  
MBC Korea  
NASA  
NBC Universal  
NOAA  
PCCW  
PBS  
Time Warner  
Tribune  
Turner Broadcasting  
Univision

