



Streambox ACT-L3™ Portable Video Transport

Available for Mac OS® and Windows®



Live Newsgathering for Broadcast and Broadband

The Streambox ACT-L3™ Portable Video Transport solution enables broadcasters, government agencies, and enterprises to deliver high quality live and stored broadcast video over low data rate connections such as broadband, BGAN, and other IP and satellite networks.

Typically used for mobile newsgathering, Streambox's real-time portable video transport systems are ideal when portability, flexibility, and a low power requirement are needed. 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 newsgathering, emergency response, and mobile command centers for the armed forces.

During power outages, Streambox systems seamlessly switch to battery power and continue to deliver video without interruption. The ability to gather, edit, and transmit high quality live video, even from the most challenging locations, provides added flexibility when reporting and delivering breaking news.

Solution Overview

The ACT-L3™ Portable encoder is compatible with all ACT-L3™ SD decoders and video management systems. It features advanced forward error correction, burst error protection, packet rate shaping, and much more.

- Powerful portable encoder
- Unrivaled video compression
- Setup within minutes – all you need is a DV camera and a network connection
- Real-time capture and delivery of interlaced NTSC or PAL signal
- Supports bit rates from 64 kbps to 8 Mbps

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 Features

- Powerful software encoder with all the advanced features of the Streambox ACT-L3™ rackmount encoders
- Unrivaled video transmission over lower data rate satellite phone, IP, or wireless 3G networks
- Advanced forward error correction and burst error protection. Helps mitigate packet loss, overcome jitter, and network buffering
- 4:2:0 and 4:2:2 color profiles
- Sophisticated video post filtering including de-blocking, de-mosquito, and anti-aliasing
- Adaptable to differing data rate requirements
- Upgradeable software
- User configurable presets for quick and flexible field setup

Target Markets and Applications

- Live newsgathering
- Satellite video transport
- Emergency response
- Armed forces operations
- Mobile command centers
- Law enforcement
- Online and distance learning
- Surveillance and security
- Point-to-point and point-to-multipoint video distribution

Streambox Platform Solutions

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

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:	AAC, GSM, and CELP Codecs
Streaming Rate:	User selectable from 64 kbps to 8 Mbps
Video Inputs:	DV via FireWire: IEEE-1394
Audio Inputs:	Embedded DV
Editing:	Works with existing NLE video editing packages
Video Post Filtering:	Interlaced/progressive Post filtering, including de-blocking, de-mosquito, and anti-aliasing
Video Pre-filtering:	Noise pre-filter, de-interlacing
Network Interface:	Ethernet, optional: 802.11b/g
Network Protocol:	Multicast/Unicast, UDP
Forward Error Correction:	Adjustable, 0% to 50%
Operating System:	Mac OS® or Windows®
Encoding Latency:	Adjustable from 200 ms to 8 seconds
Burst Error Correction:	Adjustable from 0 to 20 packets



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.



www.streambox.com

sales@streambox.com
+1 206.956.0544 Ext. 222