Streambox

Streambox® ACT-L3™ Portable Video Transport | Available for Mac OS X and Windows®

Real-time Mobile Newsgathering Via Broadband and IP

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 field reporters with ultimate flexibility when reporting and delivering breaking news.

Solution Overview

The ACT-L3™ Portable encoder is compatible with all ACT-L3™ decoders. 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. 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.

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 Features

- Powerful portable encoder containing all advanced features of the Streambox® ACT-L3™ rack-mount encoder.
- Unrivaled video transmission over lower data rate satellite phone, IP, or wireless 3G networks.
- Advanced forward error correction and burst error protection. Helps recover and cancel packet loss, overcome jitter, and network buffering.
- 4:2:0 and 4:2:2 color profiles
- Adjustable forward error correction and burst error protection.
- 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

Solution Package and Options

- 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 Playout™
- 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 8.0 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 X or Windows®
Encoding Latency:	Adjustable from 200 ms to 10 seconds
Burst Error Correction:	Adjustable from 0 to 20 packets

About Streambox, Inc.

Streambox manufactures a complete line of video transport and newsgathering 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.

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

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