



Live and File-based Newsgathering via Broadband

The fully rugged version of Streambox's award-winning ACT-L3™ Portable Video Transport solution facilitates greater flexibility in gathering news from challenging locations and extreme environments. The software-based encoding solution is integrated into one super-compact device which utilizes the Streambox® ACT-L3™ codec and advanced compression technologies widely used by news organizations, government agencies, and enterprises worldwide.

Typically used for mobile newsgathering, Streambox's live and file-based video transport systems are ideal when portability, flexibility, and a low power requirement are needed. The Streambox® Portable Video Transport, Rugged version, enables users to transmit high quality video reports from the scenes of disasters or war zones as events unfold. System performance and reliability over low data rate networks along with ease-of-use are key Streambox differentiators. Those features help customers gather news faster, more efficiently, and at a lower cost.

Solution Overview

The rugged version of the Streambox® Portable Video Transport system is compatible with all ACT-L3™ SD decoders and video management systems. It features advanced networking capabilities, including forward error correction, burst error protection, packet rate shaping, and much more.

During power outages, Streambox portable systems will seamlessly switch to battery power and continue to deliver video without interruption. The rugged system enhances users' abilities to gather, edit, and transmit high quality live and file-based video, even from the most challenging locations. This is crucial when reporting and delivering breaking news.

- Powerful portable encoder
- Unrivaled video quality at low data rates
- Sets up and transmits broadcast video within minutes
- Real-time capture and delivery of interlaced NTSC or PAL signal
- Supports data 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.

Features and Benefits

- Includes all the advanced features of Streambox rack-mount encoders
- Advanced networking capabilities help mitigate packet loss and overcome jitter and network buffering
- Meets or exceeds MIL-STD 810F
- 4:2:0 and 4:2:2 color profiles
- User-selectable forward error correction and burst error protection

Target Markets and Applications

- Live and file-based newsgathering
- Broadcast and broadband video
- Emergency response
- Special forces operations
- Mobile command centers
- Law enforcement
- Fire and rescue
- Surveillance and security
- Field editing and transmission
- 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 Play-out
 - ACT-L3™ for Apple QuickTime®
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- 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

Technical Specifications

Encoding:

- Streambox® ACT-L3™ SD Video Transport
- Video Input: DV (IEEE 1394a)
- Audio Input: DV (IEEE 1394a) embedded
- Input Standards: NTSC, NTSC-J, PAL
- Resolution: DI, 3/4DI 2/3DI 1/2DI, CIF, QVGA
- Frame Rate: Full, 3/4, 1/2, 1/3, 1/4, 1/5, 1/10
- Color Space: 4:2:0, 4:2:2
- Audio Encoding: 2-ch, 1-ch. AAC, GSM, CELP
- Bit rate: 64 Kbps to 8 Mbps
- Latency: 200 ms to 10 seconds
- Protocols: UDP/IP unicast, UDP/IP multicast, one-way broadcast/multiplex modes for dual-IP configurations
- Filters: Min-Max, soft, overlapped DCT, de-interlace
- FEC: Reed Solomon FEC adjustable from 0 to 42%, parity FEC adjustable, 0% to 50%.
- IP stuffing option

Platform:

- Intel® Core Duo (T2400)
- 1.83 GHz Processor speed
- FSB 667 MHz
- 2MB L2 Cache
- Memory: 2GB DDRII DRAM
- ATI RADEON Mobility X300 128M HyperMemory external graphics controller
- 12.1" TFT XGA outdoor touchscreen w/heater
- 120 GB shock-mounted removable hard drive w/heater
- Internal microphone and 2 speakers
- HD Audio with AC97 compliance
- Type II PC Card Slot

Connections:

- FireWire™ (IEEE 1394a) (4-pin)
- 3 USB 2.0 ports
- RS 232 serial port (9-pin)
- External VGA (15-pin)
- Audio headphone (mini jack)
- Microphone (mini jack)

Network:

- 56 Kbps V. 92 fax/modem
- 10/100/1000M bit Ethernet LAN standard
- Integrated Intel® PRO/Wireless 3945ABG
- 2.4, 5.0 GHz dualband diversity antennas
- 3 RF modems and a GPS receiver can be integrated

Power:

- 7200 mAh (79.9W) Lithium Ion main battery
- Encoding battery life 2-3 hours with main battery

Dimensions & Weight:

- 1.98"H x 11.8"W x 9.65"D
(50 mm H x 300 mm W x 245 mm D)
- 6.8 lbs (3.1 kg) with main battery

About Streambox, Inc.

Streambox provides a single platform for all live and file-based video transport and acquisition over IP. The company develops industry-leading solutions for encoding, video management, and play-out for broadcast and broadband based on the innovative ACT-L3™ codec.

Our software-based solutions provide unrivaled performance, reliability, and video quality over low data rate wired and wireless IP networks.

Learn more at www.streambox.com.

Customers Include:

AOL
American Red Cross
Bell Canada
BELO
British Sky Broadcasting
CBS
CNN
Comcast
Department of Homeland Security
DIRECTV
ESPN
Fox News Channel
Gannett
Japan Leisure Channel
MediaFLO USA
Media General
NASA
Navy Visual News Service
NBC Universal
NOAA
PCCW
PBS
Time Warner
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