



AUTOMATED HYBRID HD/SD SOFTWARE

Live and File-based Newsgathering | ENCODER SOLUTION

The Streambox Platform

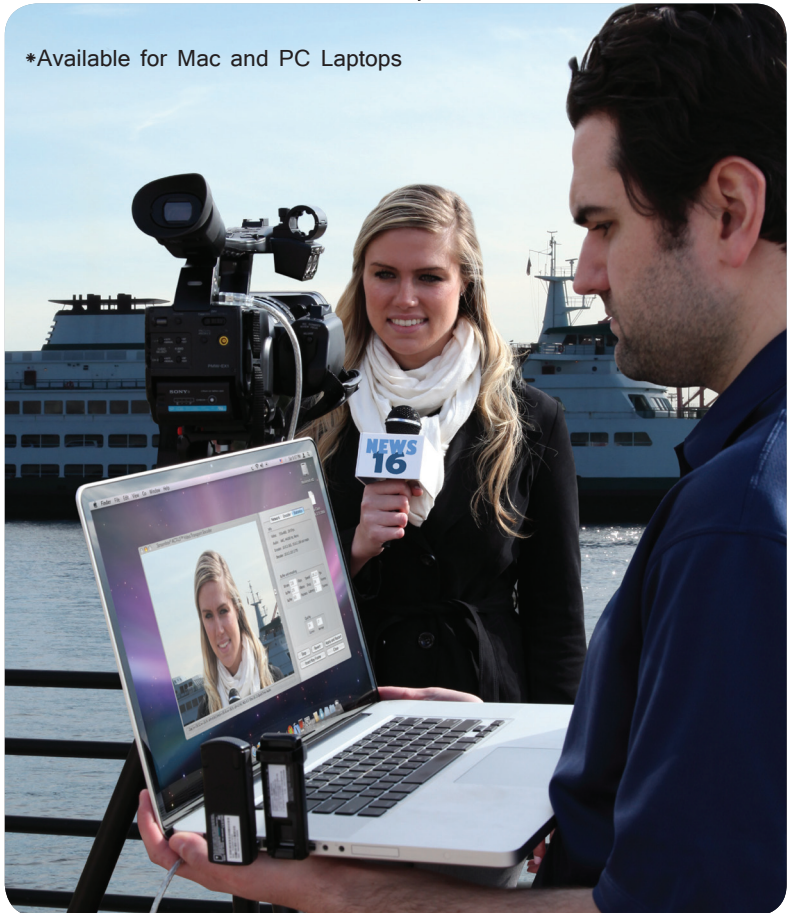
Target Markets and Applications

- HD/SD Video Backhaul • HD/SD Newsgathering
- Emergency Response • Film and Video Production
- Port and Airport Surveillance

The Streambox Automated Hybrid HD/SD Software Encoder for Mac and PC laptops gives broadcasters, government agencies, and enterprises a powerful tool for field newsgathering and live event broadcasting in high-quality HD-SDI. Our Automated Hybrid HD/SD Software Encoder enables users to deliver high quality live and file-based video over low data rate connections such as 3G/4G, Wi-Fi, VSAT, and other IP-based networks.

This solution gives users the ability to deliver high quality video from the field using advanced features that can be found on Avenir. This enhanced Automated Hybrid HD/SD Software Encoder now offers automated one-click streaming that utilizes LDMP's reliable multi-path networking and automated HD/SD visual settings based on best possible: bandwidth, latency, or resolution, to send professional quality video according to the selected preset. All it takes is a Mac or PC laptop, and a SDI, HDMI, or component**; such as Matrox, Black Magic, or Apple Thunderbolt to support full HD video transmission from anywhere.

The Streambox ACT-L3 codec is more efficient than H.264 and will allow customers to send higher quality video over a lower bandwidth connection. Our software also includes multiplexing as a key feature that will allow dual BGAN terminals, and 3G/4G cellular modems to be used to gain increased bandwidth. Performance and reliability over low data-rate networks are hallmarks of Streambox solutions making them ideal for a wide range of applications including mobile newsgathering, emergency response, and mobile command centers for the armed forces.



*Available for Mac and PC Laptops

ENCODER USER INTERFACE Mac OS® and Windows®



**Depends on video capture device

SOFTWARE

ENCODER SOLUTION



Streambox, Inc.
1848 Westlake Ave N
Seattle, WA 98109
206-956-0544
www.streambox.com

SOLUTION FEATURES

- Powered by Low Delay Multi-Path (LDMP) networking technology, a reliable protocol that sends professional quality video over public Internet connections at low data rates without using bandwidth-consuming Forward Error Correction (FEC)
- Easy-to-use automated one-click streaming that utilizes LDMP's reliable multi-path networking and automated HD/SD visual settings based on best possible: bandwidth, latency, or resolution
- Unrivaled video quality over low data rate satellite, Wi-Fi, 3G/4G, and other IP 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
- Hybrid HD/SD capable of encoding 1080i HD video at up to 6 Mbps (depending on the processing power)
- Upgradeable software
- User configurable presets for quick and flexible field setup
- Optional features include:
 - Store and Forward for more efficient streaming
 - ACT-L3 for QuickTime enables high quality field editing

TECHNICAL SPECIFICATIONS

Video Formats:	HD: 1080/60i, 1080/50i, 720/60i, 720/50i SD: NTSC/59.94i, PAL/50i
Video Encoding:	Full HD: 1080i/720p, 3/4, 2/3, 1/2, single field Full SD: 480 or 576 lines, 3/4, 2/3, 1/2, single field, CIF, QVGA
Audio Codecs:	AAC, GSM, and CELP
Streaming Rate:	64 Kbps to 15 Mbps
Video Post Filtering:	Interlaced/progressive post filtering, including de-blocking, de-mosquito, and anti-aliasing
Video Pre-filtering:	Noise pre-filter, adjustable de-interlacing
Network Protocol:	UDP, LDMP 2.0
Forward Error Correction:	Adjustable, 0% to 50%
Options:	Multiplexing for BGAN, DSL, and other IP Multiplexing for 3G/4G (Mac only)
Operating System:	HD: Windows® or Mac OS® X SD: Windows® or Mac® OS X
System Requirements:	<p>Minimum System Requirement for SD Encoder Dual Core 1.8GHz processor 1G of RAM DV or USB or iSight(OSX only) Windows: Windows XP, Vista, or 7 Mac: OSX 10.6(Snow Leopard) and 10.7(Lion)</p> <p>Minimum System Requirement for HD Encoder Dual Core i5 2.5GHz processor 2G of RAM Express Card Slot for Matrox/AJA Windows: Windows XP, Vista, or 7 Mac: OSX 10.6(Snow Leopard) and 10.7(Lion)</p>