

## 2K-HD Encoder & Decoder

Designed for Post Production Collaboration



Streambox's 2K system provides secure, real-time, remote, collaborative workflows for post production professionals by providing low latency HD and 2K video over public and private IP networks. Producers, engineers, and colorists can now deliver real-time services with a bottom line advantage for color correction, remote editorial, and final review.



### Video Quality

- High-quality, color accurate, 10-bit video over IP networks
- Bitrates up to 75 Mbps
- New ACT-L3 AP 2017 compression
- Reliable video transport with Low Delay Multi-Path protocol (LDMP), provides high quality over IP networks



### Ease of Use

- End-to-end, low stream latency of 1-2 seconds for real-time collaboration
- Local and remote control of encoder and decoder
- Ideally suited for one-to-one and one-to-many secure collaboration for technical review and executive approval



### Security

- End-to-end \*AES 128-bit encryption for secure video content transport
  - Encryption does not increase latency
  - Security is further augmented by the New ACT-L3 AP 2017 proprietary compression codec
- \*AES 192-bit and 256-bit encryption available upon request*

### Key Features

- New Streambox ACT-L3 AP 2017 proprietary codec
- LDMP reliable transport over public and private IP networks
- 1-2 second end-to-end latency over public networks
- No fiber or MPLS required
- Secure end-to-end encryption to protect content
- One-to-one or one-to-many encrypted collaboration via private network or Streambox Cloud
- Payout on software Media Player



### Advanced Streaming Codec

All Streambox products are powered by our proprietary codec, Advanced Compression Technology - Level 3 (ACT-L3). Streambox ACT-L3 compression allows for faster encoding with lower latency and is optimized for video transmission over any IP connection. Our proprietary codec is capable of compressing high motion, complex video at lower data rates using the new advanced motion search feature.

### Streambox LDMP Technology

All Streambox products come equipped with Streambox exclusive Low Delay Multi-Path technology (LDMP). Streambox LDMP protocol allows low latency adaptive bitrate streaming on public and private networks. Streambox encoders will automatically select the best possible bandwidth, latency, and resolution over multiple IP networks, thus allowing Streambox products to gracefully handle network bandwidth fluctuations and dropouts, which are often seen over public or shared network environments.





# Streambox® 2K Technical Specifications



Encode

Encrypted

Playout

## VIDEO INTERFACE

Video In: BNC 6G/3G/HD SDI 1x10-bit 2K or HD - with embedded SDI audio

Video Out: BNC 6G/3G/HD SDI 1x10-bit 2K or HD - with embedded SDI audio

Reference: BNC Tri-sync for 2K or 1080

## VIDEO TRANSPORT

Streambox LDMP 2.0 with network bonding

UDP Unicast, Broadcast, or Multicast

Adjustable Forward Error Correction

Embedded Metadata

Compatible with Streambox Cloud and Enterprise Servers

## VIDEO FORMATS

2048x1080: DCI 2K for 23.98p and 24p

1920x1080: 23.98p, 23.98psf, 24p, 24psf

Additional non-film formats available out of specs

## ENCRYPTION

AES 128-bit encryption with symmetric key

AES 192/256-bit options available upon request

HTTPS option for web control available

## COMPRESSION

Video Codec: Streambox ACT-L3 AP 2017

Audio Codec: up to 8-ch/48 Khz AAC/CELP/GSM

Bitrate: 0.064 to 75 Mbps

Encoding Latency: Adjustable from 200ms to 8s

Color: 4:2:2 or 4:2:0 profiles

## MANAGEMENT CONTROL

Web UI for secure local or remote access

Customizable Presets

Live Video Preview via Web UI

Front LCD with Keypad

USB and Video Ports

## POST PROCESSING

Advanced post filtering

## OPERATING SYSTEM

Linux

## NETWORK INTERFACES

Two Ethernet ports RJ45: 1G/100M/10M

## PHYSICAL

Size: TBD Weight: TBD

Power: 100-240 VAC, 160 W



Streambox 2K Backplane



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