

Streambox[®] Chroma[™]

2K Encoder & Decoder

Streambox Chroma 2K Encoder / Decoder rackmount with its modular strategy is well suited for secure collaboration of cinematic, TV, and commercial content. Real-time remote collaboration — editorial, color-correction, lighting, continuity, approval, etc, over public or private IP network is ideal for Post-Production workflow.



ACT-L5 Video Quality & Delivery

- High-quality, 12-bit* RGB, 4:4:4 or 4:2:2 video over public and private IP networks
- Lower monthly operating cost with wired and wireless IP networks
- Low Delay Multi-path Protocol (LDMP) reliable video transport
- Up to 120 Mbps for near lossless quality
- Scalable bitrates from 2 to 120 Mbps
- Streambox ACT-L5 compression
- No fiber or MPLS required



Security

- End-to-end AES 128-bit video encryption
- No increase in stream latency
- The proprietary ACT-L5 codec
- AES 256-bit encryption is available with added restrictions
- A protective shield around the transport of valuable video content
- 1-2 second end-to-end latency over public networks
- Playback on software Media Player
- One-to-one or one-to-many encrypted collaboration via private network or Streambox Cloud



Modular Upgradability Options

- 8-channel uncompressed PCM audio support
- AES 128-bit video encryption
- 4K encoder and decoder software
- 4K ready hardware upgrade
- HDR metadata **
- 12G-SDI

* requires 12G-SDI option

** HDMI is supported with decoder only



Streambox Chroma™ Technical Specifications



Encode

→ Encrypted

→ Playout

VIDEO INTERFACE

- Video IN/OUT: BNC 6G/3G/HD SDI 10-bit 2K or HD
- 12G option: Dual link BNC 12G/6G/3G/HD SDI 12/10-bit 2K or HD
- Decoder only option: HDMI out with Rec 2020 HDR10 Metadata support

VIDEO FORMATS

- DCI 2K for 23.98p and 24p (2048x1080)
- 1080p for 23.98p, 23.98psf, 24p, 24psf 1920x1080
Additional non-film formats available out of specs
- DCI 2K for 23.98p and 24p
- 3D option*: DCI 3D and 3D 1080p in 4:4:4/4:2:2, 12/10-bit
*Additional non-film formats available out of specs
RGB-4:4:4 and 4:2:2 are supported in 10 and 12 bit**

ENCRYPTION

- AES 128-bit encryption with symmetric key
- AES 192-bit and AES 256-bit options available as restricted option
- HTTPS option for web control available

PHYSICAL

- Size: 1 Rack Unit (standard size)
- Power: 100-240 VAC, 160 W

OPERATING SYSTEM

- Linux

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

COMPRESSION

- Video Codec: Streambox ACT-L5 and ACT-L3 AP 2017
- Audio Codec: Uncompressed PCM, AAC up to 8-ch, CELP, GSM
- Audio Frequency: Up to 48 KHz
- Bitrate: 2 to 120 Mbps
- Encoding Latency: Adjustable from 200 ms to 8 seconds
- Color: RGB 4:4:4, 4:2:2 or 4:2:0 profiles
- Bit Depth: 12*, 10, 8

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

NETWORK INTERFACES

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