



Products Presentation 2015

The Streambox Advantage

Award Winning IP Video Codec ACTL3-AP and video transport LDMP

- Advanced compression technology for higher-quality HD/SD video contribution.
- Exclusive patented technology for reliable streaming over variable bandwidth public networks.
- The leader in mobile video encoding and streaming.
- The first solution where quality video distribution does not entail a Monthly Recurring Cost (MRC).
- Full range of offerings, including hardware, software and apps for business-critical scenarios.

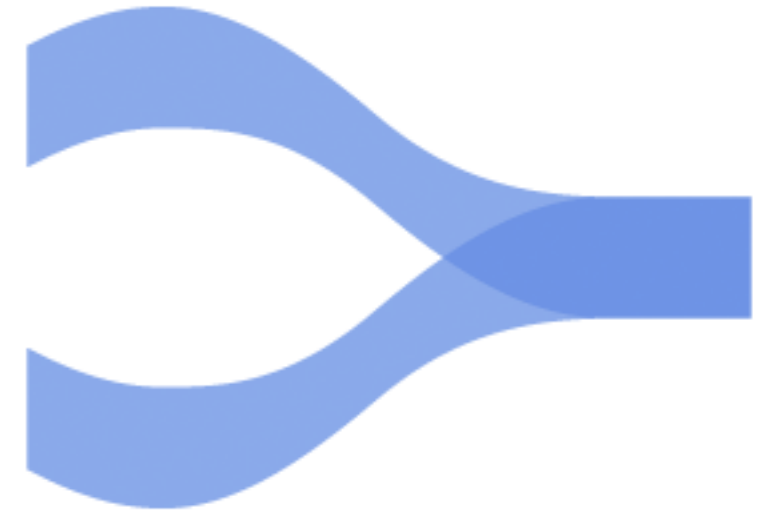


ACTL3-AP

Advanced Coding Technology
Level 3 - Advanced Profile

Low-Delay Multi-Path Technology (LDMP)

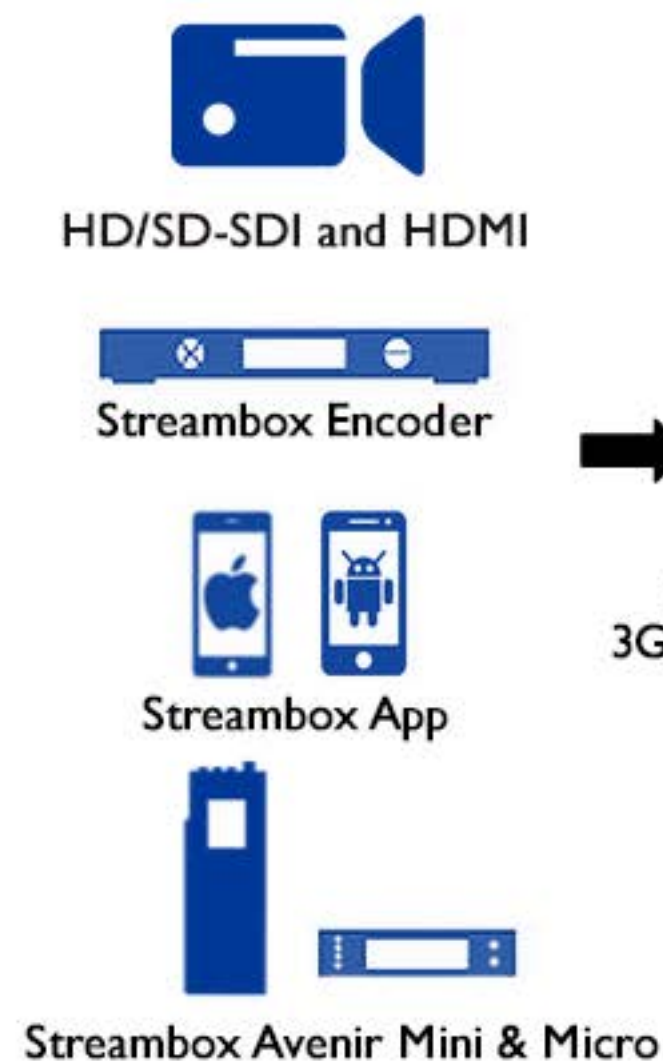
- Network bonding capability to aggregate bandwidth availability, and also increases video reliability with network redundancy.
- Bi-directional communication between encoder and decoder eliminates the need for packet redundancy, provides better IP throughput and useable bandwidth availability.
- Maintained latency measurement over long periods, “no latency drifts”.
- Pre-determination of network conditions to adjust to alternate video network path.
- LDMP provides better Quality of Service metric than FEC (Forward Error Correction).
- Superior reliability over the public Internet’s “lossy” conditions.
- Non-Recurring Cost for integrated IP Transport (LDMP is baked into Hardware and Software).



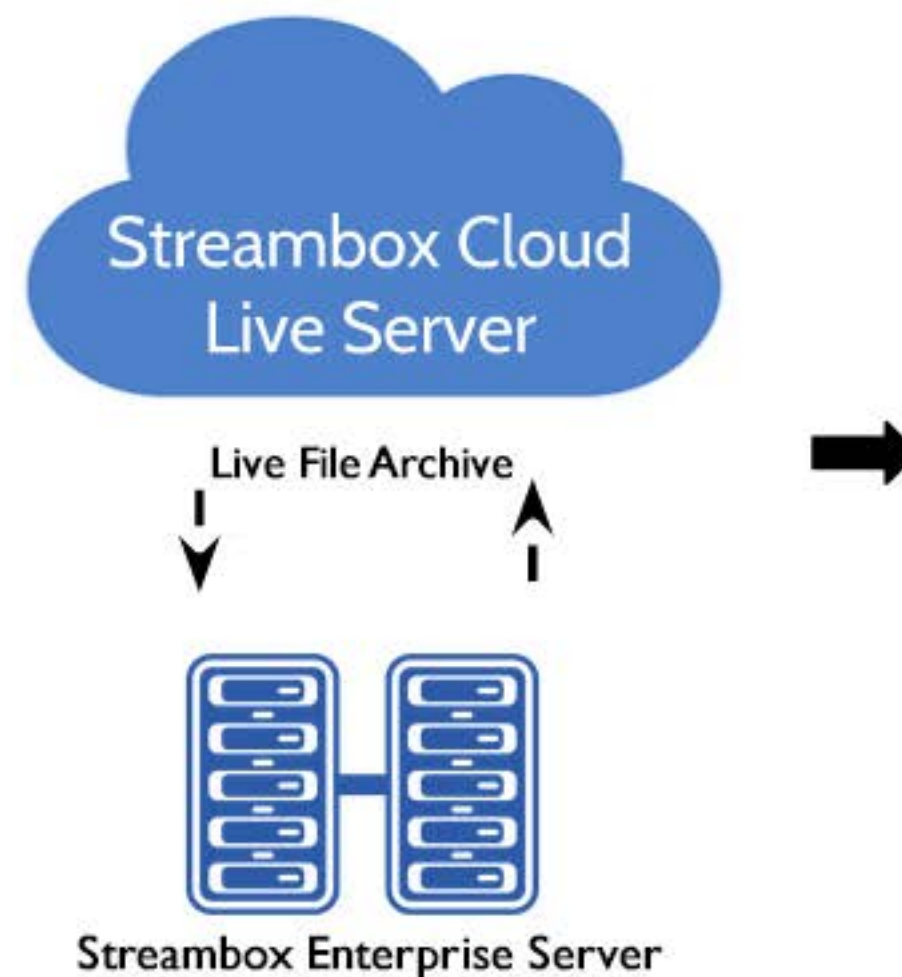
Transmitting Video with LDMP

LDMP is applied at both ends of a video stream workflow

CAPTURE SOURCE



VIDEO MANAGEMENT



OUTPUT DISPLAY



Streambox ACTL3-AC[®] Comparison

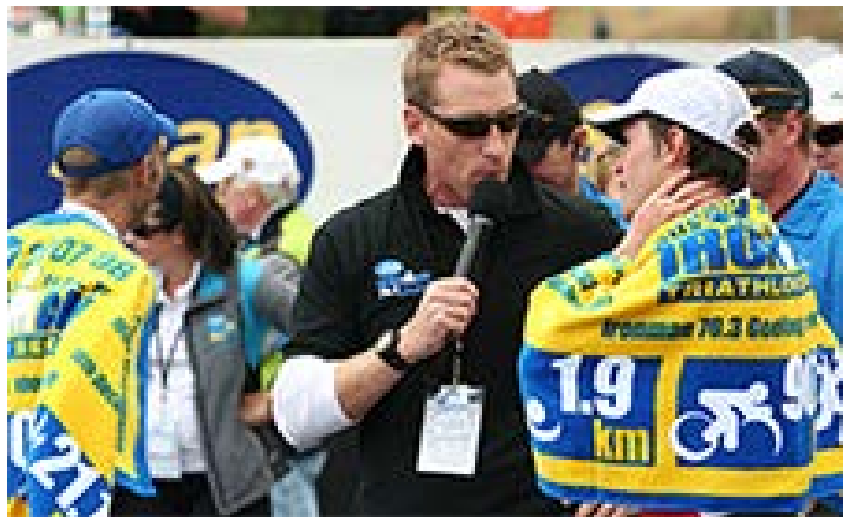
Exceptional Quality, at lower compression rates



H264 Encoding
350Kbps – FEC



ACTL3-AP Encoding
300Kbps – LDMP



H264 Encoding
350Kbps – FEC



ACTL3-AP Encoding
300Kbps – LDMP

In video decoding tests, ACTL3-AP provided better quality and reliability than H.264 with a bitrate reduction up to 30%. That's substantially better than what a comparison of peak signal-to-noise (PSNR) values would predict in contrast to HEVC.

Quality comparison tests have demonstrated that ACTL3-AP reduces the bandwidth request to keep the same quality compared to H.264.

Streambox Products

Full range for encoding, delivery and play back

Mobile Solutions

Encoders/Decoders

- Portable Encoders/Decoders
- Drone Encoder
- Signal Extenders

Software Encoders and Decoders

- 4k Software Encoder/Decoder
- HD/SD Hybrid Encoder
- Streambox App
- HD/SD Software Decoders

Cloud Video Delivery

- Streambox ME Pro Encoder

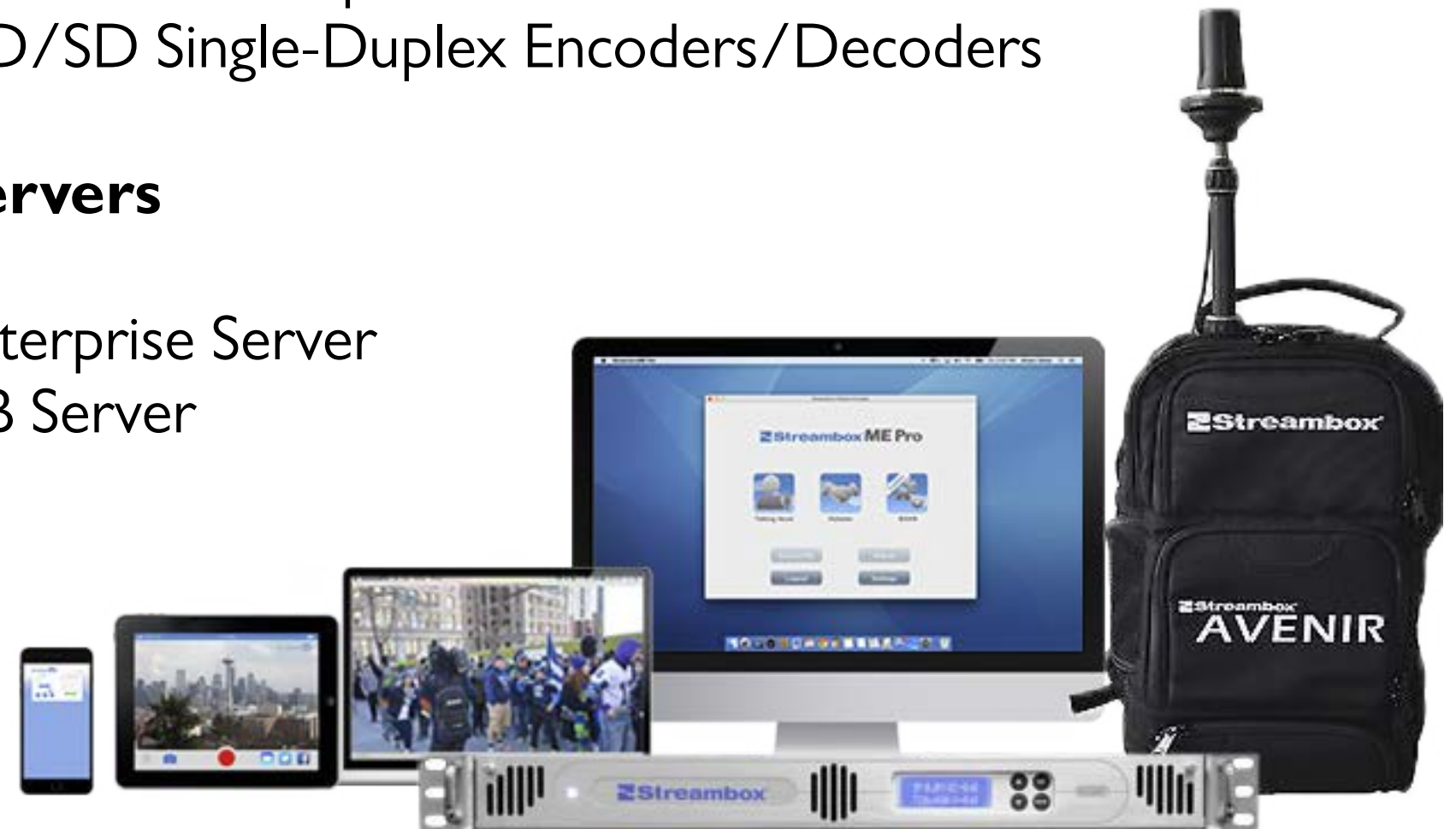
On-Premises Solutions

Rackmounts

- 4K Encoders/Decoders
- HD/SD Full-Duplex Encoders/Decoders
- HD/SD Single-Duplex Encoders/Decoders

Servers

- Enterprise Server
- IFB Server



Streambox Enterprise Server

Light

- Centralized secure server for live and file based contribution and acquisition.
- Push & pull video stream & files.
- Route and manage incoming live streams.
- Transcode to MP4.
- Meta data based search.
- Thumbnail preview of incoming live streams.

Extreme

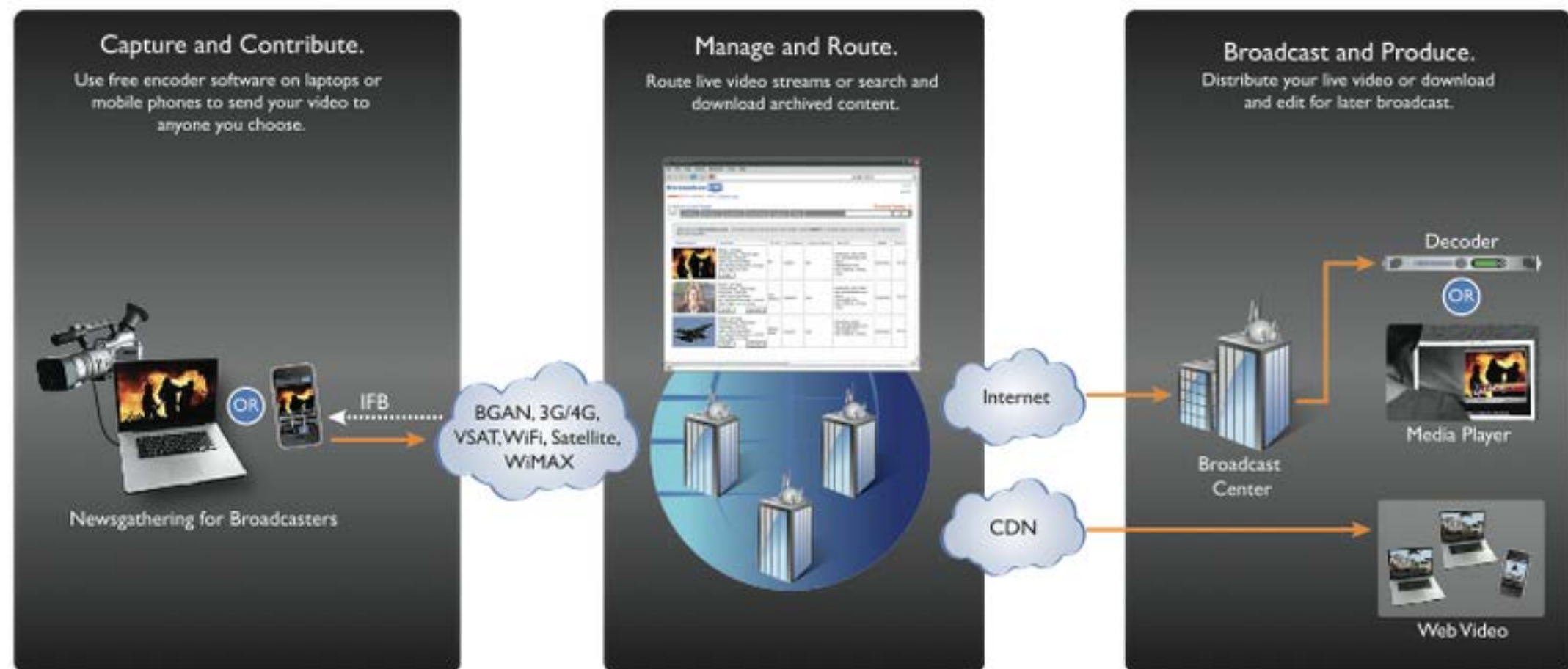
- All live features plus: Automated streaming, routing, grouping, and archiving based on metadata.
- Decoders groups policy by department and users.



Streambox[®] CLOUD

Streambox Cloud is a mobile video contribution and distribution service allowing users to capture, send and receive video from anywhere.

Streambox Cloud lets organizations send live video to the web and mobile devices and live or file-based video email links from mobile devices.



On-premise Solutions

Rackmount Encoders/Decoders

- 9200 Half Duplex entrance level Encoder/Decoder. Lower cost and basic video features. Decoder only available, upgradeable to encoder via software, IFB capable
- 9300 Half Duplex, enhanced HD/SD video In-Out features, S&F, IFB. Encoder/Decoder or Decoder only. Non upgradeable.
- 9400 Full Duplex. Simultaneous HD/SD encoding and decoding.
- IMAG Encoder and Decoder. Dual HD/SD output Encoder and dual input Decoder.
- 4K Encoder / Decoder. full resolution 3840 x 2160 UHD or 4096x2160 4K . 30p and 60p. 12G or dual 6G video input.



SBT 9200 E/D
Half Duplex Encoder



Streambox 9400 E/D
Full Duplex Encoder



Streambox IMAG
Dual Channel
Encoder/Decoder



Streambox 4k
4k Encoder

Mobile Solutions

Avenir Mini fully-integrated mobile solution

- 5 - 3G/4G Modems + 2 USB Slots.
- High gain MIMO integrated antennas.
- Camera mount or side pack option.
- 1 click video contribution.
- Full HD & SD encoding.
- File recording & upload.
- IFB audio.
- Reference monitor for video presence.

- HDMI & SDI input/capture.
- Remote control via web browser on local IP, Wifi hotspot and remote server worldwide.
- Anton Bauer or IDX battery capable.



HD/SD Software Encoders

- HD /SD encoding with Thunderbolt/USB 3.0 in (SDI HDMI in via third party adaptor).
- 64Kbps to 8 Mbps encoding.
- One click button automated streaming and advance encoding configuration option for trained users.
- All interfaces multiplexing capability: LAN, WIFI, 4G-3G, BGAN, VSAT.
- 4G/3G bonding over USB modems
- Stream to Decoder, Enterprise Server or Streambox Cloud.



HD/SD Software Decoders

Mediaplayer PRO Software Decoder.

- Decode HD/SD signal form any Streambox Encoder and Streambox Cloud.
- Free to download for monitoring purposes.
- PRO features available under license for Full Screen view and SDI to HDMI video output over third party Thunderbolt and USB3.0 adaptor.



Streambox App for iOS, Android and Windows

- Bond 3G/4G and Wi-Fi networks to send up to 2 Mbps professional quality video content with sub 2-second latency.
- Send video directly to decoders or Enterprise Server.
- Video and network automation with LDMP technology.
- 720x400 (DI) resolution, 30fps, 16x9 or 4x3 aspect ratio.
- Advanced Audio Coding (AAC).
- Custom video presets.
- Free app with use of Streambox Live service.
- Paid app to send video to Streambox Decoder or Enterprise Server.
- Scalable software-based solution.



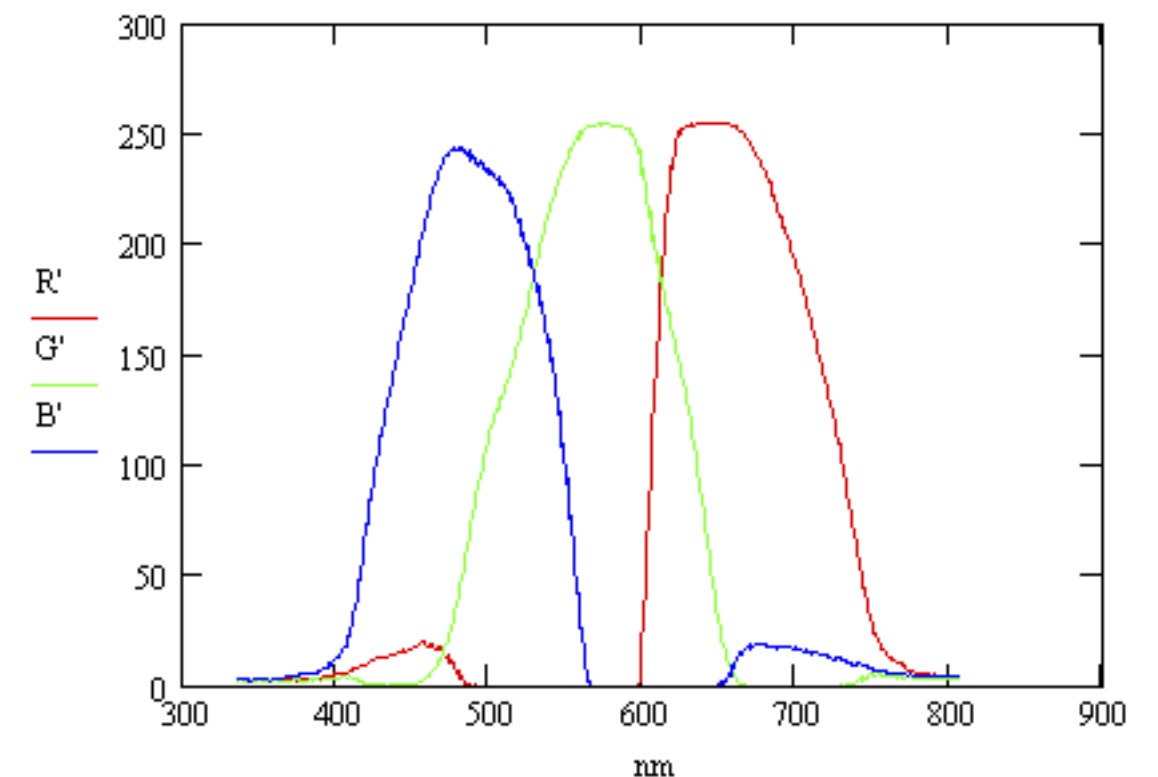
Broadcasters

- Broadcast live breaking news immediately from anywhere events unfold.
- Capture video from remote locations using portable hardware, laptops or mobile phones.
- Improve transmission quality and reduce structure cost using public internet as transmission path.
- Multiplex several transmission paths with the best in market bonding network protocol LDMP.
- Stream over all available network paths using our exclusive Low Delay Multi Path (LDMP) technology.
- Set up quickly and transmit higher quality video and audio over low bandwidth connections with our innovative ACT-L3 AP compression technology.
- Use our Streambox Cloud to manage, route and archive large amounts of stream or use the Enterprise Server as your “Private Cloud”.
- Trust the solutions used by CNN for more than 10 years.



Post-production

- Accelerate and enhance video editing by allowing editors and reviewers to collaborate in real-time.
- Gain immediate feedback from clients located around the world.
- Get superior video quality from our ACT-L3 codec compared to H.264.
- Get high-fidelity sound to accompany your professional video.
- Stream live or file-based video over any network connection using our exclusive Low Delay Multi Path (LDMP) technology. Eliminates the need for dark fiber or extends channels over MPLS .
- Support film industry specific 23.94 and 24 frames per second HD-SDI 1080 formats for encoding 4:2:2 color space in 1080p psf.



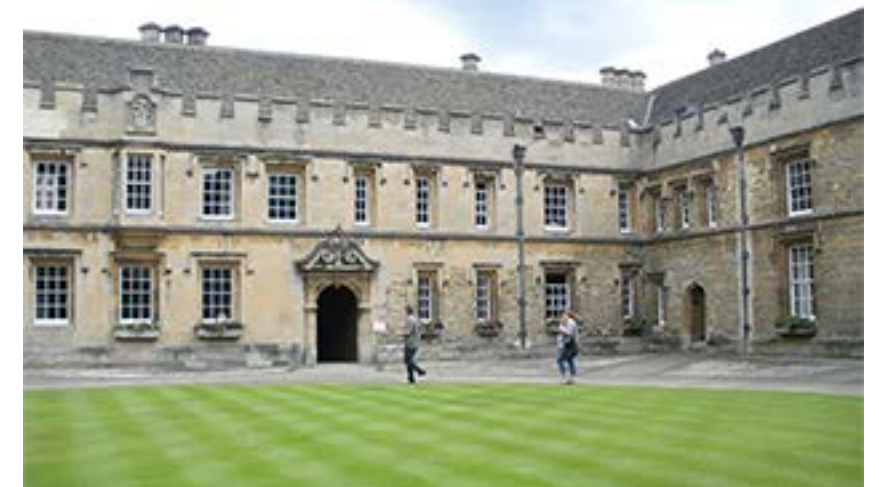
Education

- Enhance your curriculum with live video streaming from your classroom to students at other locations or at home.
- Use for lecture capture, distance learning and sports events.
- Encourage students to capture live video using our free app for mobile phones and laptops.
- Share and stream video to the web or mobile devices and via social media and email.
- Deploy the Streambox Enterprise Server for easy, secure management and distribution of video plus archiving for later playback
- Stream live or file-based video over any network connection using our exclusive Low Delay Multi Path (LDMP) technology
- Connect multiple sites with interactive video using our full-duplex encoder for two-way video transmission.



Multi-site campuses

- Deliver high-quality, reliable video from a main location to one or more secondary locations anywhere in the world.
- Stream live or file-based video over any network connection using our exclusive Low Delay Multi Path (LDMP) technology.
- Connect multiple sites with interactive video using our full-duplex encoder for two-way video transmission.
- Deliver video when on demand with delayed playback for sites in different time zones.
- Deploy the Streambox Enterprise Server for easy management and distribution to multiple sites plus archiving for later playback.
- Deliver interactive video encoding and decoding in both hardware or software based solutions to get the best solution for each type of project budget.



Medical

- Discover the benefits of live HD video for telemedicine, pathology and surgery.
- Deliver bi-directional HD video for telemedicine without expensive dedicated networks and high bandwidth channels.
- Take advantage of real-time collaboration between pathologists with users connected from remote locations around the world.
- Deploy the Streambox Enterprise Server for easy, secure management and distribution of video plus archived video for on-demand playback.
- Stream live or file-based video over any network connection using our exclusive Low Delay Multi Path (LDMP) technology.
- Connect multiple locations with interactive video using our full-duplex encoder.



State & local government

- Capture bad weather and traffic conditions, city council meetings and local emergency response to share with community members in real-time.
- Capture and stream video from first responders to headquarters using our Drone Encoder, our free encoding app and cloud based streaming.
- Use the best in class encoder ACTL3-AP and network protocol LDMP for mission critical scenarios with potentially damaged communication networks.
- Use our cloud service, Streambox Live, for cost-effective live streaming or use the Streambox Enterprise Server within your video workflow.
- Stream over all available network paths using our exclusive Low Delay Multi Path (LDMP) technology.
- Share live video easily with one-click streaming to Facebook, Twitter, or email Archive video as needed for on-demand playback.



Government & military

- Capture surveillance video for monitoring of sensitive facilities and borders to improve citizen safety.
- Stream live video from the battlefield to command centers to augment ground personnel's situational awareness.
- Stream live video from remote and challenging situations using our Drone Encoder, free encoding app and cloud-based services.
- Stream over all available network paths using our exclusive Low Delay Multi Path (LDMP) technology for high-reliability.
- Get superior video quality from our ACT-L3 codec compared to H.264 Archive video as needed for on-demand playback.



Enterprise

- Discover the benefits of professional-quality live video for cost-effective training, sales and marketing, and facility and equipment support.
- Deliver live events, such as product launches and executive meetings from different locations around the world.
- Encourage employees to share video using our free app for mobile phones and laptops Stream video to the web and mobile devices plus social media and email.
- Deploy the Streambox Enterprise Server for easy, secure management and distribution of video plus archived video for on-demand playback.
- Stream live or file-based video over any network connection using our exclusive Low Delay Multi Path (LDMP) technology.
- Connect multiple locations with interactive video using our full-duplex encoder.



Industrial

- Ensure security of equipment and personnel with real-time video of installation and drilling locations.
- Monitor measurements, statistics and site progress via wired or wireless applications Train local and remote staff in a consistent and timely manner.
- Stream live or file-based video over any network connection using our exclusive Low Delay Multi Path (LDMP) technology.
- Connect multiple locations with interactive video using our full-duplex encoder.
- Deploy the Streambox Enterprise Server for easy, secure management and distribution of video plus archived video for on-demand playback.

