Streambox®

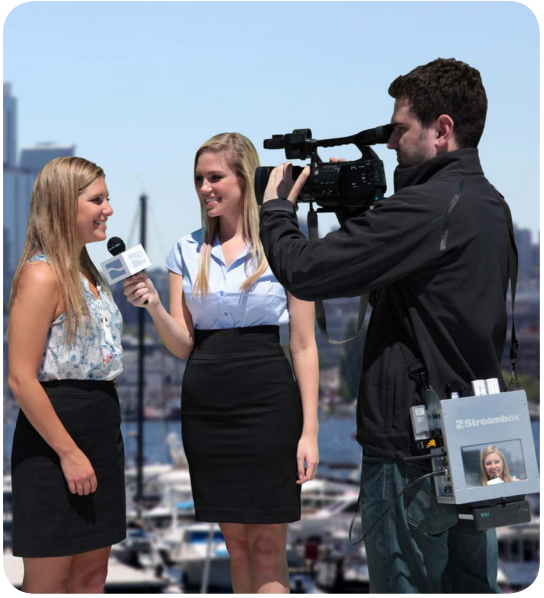
Complete Mobile Live and File-based HD/SD Solution for Broadcast and Broadband Video

AVENIR SERIES

The Streambox Platform

Target Markets and Applications

Live newsgathering • Streaming to the web and mobile devices • Satellite video transport • Emergency response • Armed forces operations • Mobile command centers • Online and distance learning • Law enforcement • Point-to-point and point-to-multipoint video distribution



Avenir is a specialized Streambox ACT-L3 HD and SD mobile broadcasting device designed for video contribution and streaming for non-technical users to quickly send live and file-based video from remote locations over bonded wireless 3G/4G networks and the Internet.

The unit is battery powered light weight small form factor device that is capable of delivering high quality real-time HD/SD video and almost real-time HD/SD file-based video by bonding up to 8 - 3G/4G wireless cards. Avenir contains many advanced features for ease of use and operations with automated 3G/4G networking and dynamic bandwidth negotiation. Additional benefits for video quality and operations include automated HD and SD video selection, easy-to-operate touch-screen interface, an optional iTouch/iPhone user interface can be used to access Avenir's controls remotely, and a family of optimized smart-presets for delivering the highest quality video for best results.

Avenir has two built in paths to transmit HD/SD video from the field. The direct connection allows Avenir to send live video to a Streambox Decoder or Media Player and transmit file-based video to a Streambox Store and Forward Server in the broadcast studio or datacenter. Alternatively, Avenir could utilize Streambox Live cloud-based service to send both live and file-based video for real-time routing, archiving, and video sharing for many-to-many service.

The Avenir system can be fully integrated with other Streambox products such as Streambox Live Service and the Store and Forward Server for centralized file-based acquisition and management. Avenir works with Streambox Live Service for live streaming to the web, mobile devices and desktops, as well as uploading and management of HD/SD video files. The Avenir is designed to shorten and streamline workflows for both live and file-based acquisition by containing field editing features include play/pause, trim to selection, file deletion, and file uploading.

SOLUTION FEATURES

- Automated HD and SD live streaming
- Near real-time high quality HD and SD store and forward video
- Supports up to 8 3G/4G, multiplexing and de-multiplexing, 2x Ethernet and Wi-Fi
- HD and SD Video automation from selection, capture to delivery over bonded 3G/4G networks with Automated Bandwidth Negotiation (ABN) and Dynamic Bandwidth Negotiations (DBN)
- Smart presets for high quality optimized video end-to-end delivery
- HD-SDI and DV input
- Multiple application and device controls via touch screen LCD, iPod Touch, and iPhone
- 1-2 hours of operations from single IDX battery
- Advanced HD and SD Encoder
- IFB Connection
- Works direct with Streambox decoders, Distribution Server and Store and Forward Server
- Works with Streambox Live Service for many-to-many video sharing, routing and file archiving

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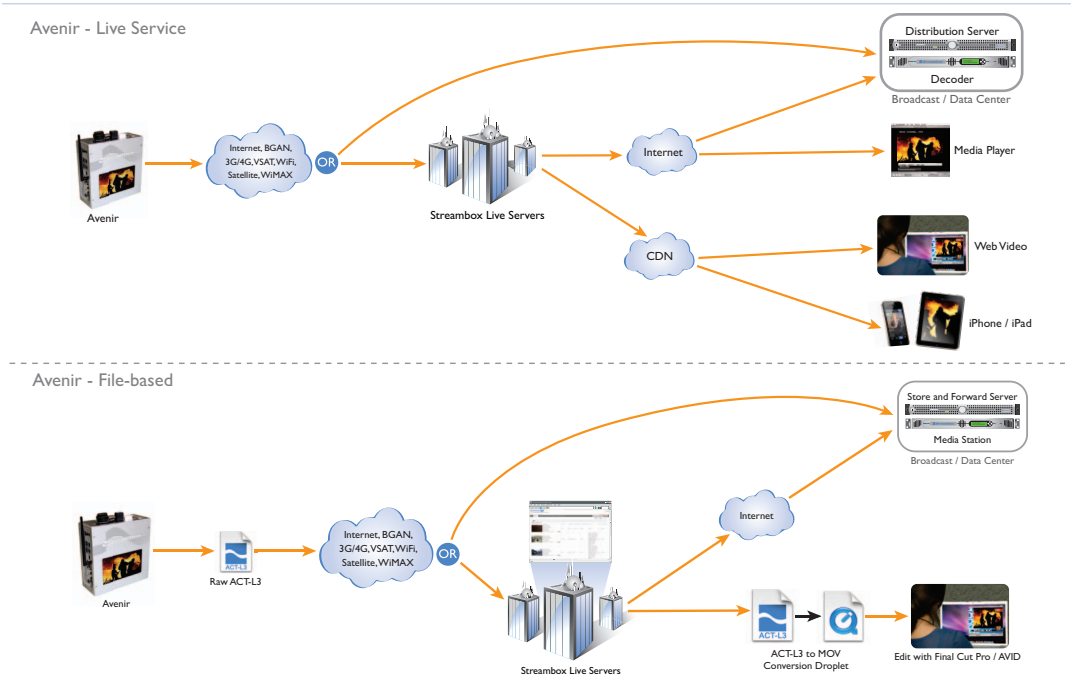
TECHNICAL SPECIFICATIONS

Video Formats:	HD: 1080/23.98PsF, 1080i/59.94, 1080i/50, 720p/59.94, 720p/50 SD (NTSC): 525/59.94, (PAL): 576i/50
Video Encoding:	HD: 1920, 1440, 1280, 960x1080, 1280, 960, 800, 640x720 SD: 720, 528, 480, 352x480, 320x240, 720, 528, 480, 352x576, 320x288
3G/4G Network Integration:	x8 USB slots for up to 8 bonded 3G/4G wireless adapters
Video In:	HD/SD SDI or DV
Audio In:	1,2,4,6 channel embedded SDI audio, 24-bit, DV embedded
Color Profile:	4:2:0, 4:2:2
Closed Caption:	EIA-708
Video Post Filtering:	Advanced interlaced/progressive post filtering, including de-blocking, de-mosquito, and anti-aliasing
VANC:	Pass through of VANC EIA-608/708, SMPTE-334
Metadata:	End-user selectable
IFB Audio Support:	1/4" stereo mini
Network:	2x Ethernet, 1x WiFi, 1-8x USB 3G/4G (not included)
Forward Error Correction:	Adjustable, 0% to 50%
Power:	AC adapter or battery; 11A at 12V, 9.5A at 14V
User Interface:	7" LCD touchscreen; USB mouse and keyboard, 15-pin analog monitor, iPod Touch, iPad, HTML
Utility:	VGA: D-SUB 15-pin
Dimensions:	209 mm x 192 mm x 70 mm
Weight:	7 lbs. (without battery)
Accessory:	DC power unit: IA-300a IDX Power Terminal: EB-4 (optional) IDX Battery: Power CUBE; IDX 1.7 lbs. (optional)
Battery Life:	(Optional) IDX rechargeable, 1-2 hours (depending on operation)
Hard Disk (SSD):	64GB SSD; 128/256GB SSD upgrade (optional)

Avenir - Live and File-based Work Flow



Streambox

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