

Channel Control Center

Welcome admin@sup.com



In: 60.0730 Mbps

Out: 30.0623 Mbps

Select Filter

Camera 1



REC

Hide Meters

In
225.21 Mbps

Out
106.41 Mbps



Elapsed Running Time: 04h11m03s

Camera 2



Hide Meters

In
31.72 Mbps

Out
15.39 Mbps



Elapsed Running Time: 00h12m38s

Feed 01



Hide Meters

In
28.19 Mbps

Out
16.41 Mbps



Elapsed Running Time: 13h72m43m17s

Haivision

KB Series

Professional Encoding/Transcoding Solutions from Haivision



HEVC & H.264 Internet Media Encoders/Transcoders for Live Event Streaming

Deliver high-quality live video to your viewers with Haivision’s award-winning KB series of HEVC/H.264 internet media encoders/transcoders. Available as small form factor portable appliances as well as rack-mountable enterprise grade servers, the KB Series offers multiple options for live event streaming to global internet audiences.

ABR Cascades & Real-Time Encoding The KB series of adaptive bitrate (ABR) encoders/transcoders maximizes computational resources to offer real-time HEVC or H.264 encoding and adaptive bitrate (ABR) cascades. Multiple resolutions can be distributed as SRT/RTMP streams and ABR cascades in HLS/MPEG-DASH across the world’s largest CDNs, providing your internet audience with the best viewing experience regardless of their geographic location, network conditions or preferred device.

Get the Most Out of your Uplink Connection to the Cloud Bandwidth limitations and unreliable internet connections can compromise your end-viewer’s experience. The KB encoder can solve this problem by sending a single bitrate stream - at the highest quality possible - to a cloud-based transcoding service, creating ABR distribution cascades for delivery to all types of viewing devices. With support for HEVC, KB uses up to 50% less bandwidth than the H.264 codec. Additionally, Haivision’s SRT (Secure Reliable Transport) technology leverages low-cost, readily available public internet connections for secure and reliable streaming from a local event to the cloud, getting the most out of your available uplink bandwidth. Synchronization between KB units with NTP servers or SMPTE timecode is also supported for redundant video contribution, ensuring that your audience never misses a moment of your most important live events.

Easy Live Streaming with Online Video Platforms The KB Series connects seamlessly with cloud service providers, online video platforms and CDNs. Azure certified, KB helps users reach global internet audiences. Depending on your broadcast needs, KB can be configured to send a single bitrate or multi-bitrate stream to the cloud for distribution. KB also helps Microsoft Teams, Stream, and Facebook Workplace users securely and reliably live stream meetings, events, and presentations to colleagues, wherever they may be located. Just plug in the live video feed, connect to the internet, and start streaming!

Simulated Live for Scheduled Events Sometimes you stream events live, and sometimes you need to simulate the live experience. KB provides maximum flexibility for delivering high-quality streaming content to your audience for live events, as well as simulating live events by using previously recorded content to stream ad-hoc or according to a schedule.

FEATURES

BENEFITS

H.264 & HEVC encoding/transcoding	High efficiency video compression over any network, including the public internet, for live events contribution or simulated-live
ABR Cascades	Seamless viewing experience at the player level with dynamic bitrate/resolution tuning
SRT (Secure Reliable Transport) Protocol	AES encrypted, packet loss resilient live video for first-mile contribution from source encoder to cloud hosted transcoder
Direct CDN Ingest	Ensure reliable streaming over Akamai, Limelight, Brightcove Video Cloud Live, and other CDN providers using Adobe and Wowza based services
608/708 Closed Captioning	Support digital television closed captioning standards and provide a more inclusive viewing experience and accessibility to your audience
Small Form Factor (option)	High powered processing in a portable appliance
Ad Insertion	Easily insert SCTE-104/SCTE-35 markers for ad insertion or calls to action with the support of ad services and servers

KB SERIES USER INTERFACE

KB MINI PORTABLE HD ENCODER/TRANSCODER



KB ENCODER/TRANSCODER SERVER



Flexible Deployment Options

The KB Series offers flexible deployment and hardware acceleration options for every live event streaming scenario:

- The award-winning **KB Mini Encoder/Transcoder** is a portable H.264/HEVC video appliance that's easy to set up and is ideal for live event streaming from anywhere with an internet connection. With direct wi-fi control, users can quickly configure their network settings right from their laptop.
- **KB Encoder/Transcoder Server** is ideal for enterprise-grade internet streaming. Featuring redundant power supplies, RAID configurations and support for up to four 1080p video input channels, the KB Encoder/Transcoder Server fits within your existing enterprise infrastructure.

Rackmount Options for the KB Mini Appliance

The KB series servers are rack-mountable, and 1RU rackmount options are available for either one or two KB Mini units.



KB MINI SERVER RACK - ONE UNIT, TWO UNITS

KB Workflow



KB ENCODER/TRANSCODER SERIES

Linux-based, optimized for 64-bit computing and multicore processing

ALL KB CONFIGURATIONS SUPPORT THE FOLLOWING:	
VIDEO ENCODING	
Video Encoding/Compression Standard	AVC/H.264, HEVC/H.265
Video Input Compression/Decoding	MPEG-2, H.264 and HEVC
Profiles	H.264: High, Main, Baseline; HEVC: Main
Bit Rates	up to 50 Mbps
Rate Control	CBR, VBR
Chroma-Sub Sampling	up to 4:2:2
AUDIO ENCODING	
Audio Encoding/Compression Standard	AAC-LC/HE
Bit Rates	up to 1536 Kbps
OUTPUT	
Network Output Protocols	SRT, RTMP, UDP (Unicast/Multicast), HTTP Live Streaming (HLS), MPEG-DASH
File Outputs	H.264 MP4, HEVC MP4
Validated CDNs	Akamai Certified for RTMP/HLS/MPEG-DASH Limelight (StreamAnywhere and MMDLive) CDN providers using Adobe Media Server (AMS) Azure Media Services (AMS) Brightcove Video Cloud Live CDN providers using Wowza servers (with or without secure URL param authentication) and more

	KB MINI	KB SERVER
Video Inputs	One baseband HD-SDI capture up to 1080p60 One IP H.264 or HEVC input support up to 1080p60	Up to four 3G-SDI or IP video inputs supporting up to 1080p60 per input
Audio Inputs	Up to 16 channels of embedded audio	Up to 16 channels of audio per input
Stream Outputs	H.264/HEVC: 1080p30 ABR cascade encode (1080p, 720p, 480p, 360p, 270p, 180p) or one 1080p60 HW encode.	HEVC: Up to one 1080p30 encode per input Or H.264: Up to one 1080p60 encode per input Or H.264 ABR cascade: Up to one 1080p30 encode per input (1080p, 720p, 480p, 360p, 270p, 180p)
Baseband SMPTE Timecode	Unsupported	Supported
Dimensions	1.4" H x 7.2" W x 7.0" D (3.6 cm H x 18.3 cm W x 17.8 cm D)	1.68" H x 18.98" W x 27.57" D (4.3 cm H x 48.2 cm W x 70.1 cm D)
Weight	2.87 lbs (1.38 kg)	36.9 lbs (16.7 kg)
Power	1x External 130W fanless power adapter	Dual power 550W
Recording Storage Capacity	256 GB	400 GB

KB Version 5.8.2

KB Series Product Portfolio & Ordering Information **

KB Mini Portable HD Encoder/Transcoder	S-KB-SFF4-1	SDI or IP capture up to 1080p60 (in a small form factor appliance)
KB Encoder/Transcoder Server	S-KB-1/2/4	1, 2, or 4 SDI or IP capture up to 1080p60. 1 RU server
KB Mini Rackmount - Single Unit	RU-SFF-1	Rack mount for single KB Mini appliance
KB Mini Rackmount - Dual Unit	RU-SFF-2	Rack mount for two KB Mini appliances

** For complete pricing and ordering, contact us at sales@haivision.com or your certified Haivision reseller.