



Versatile Broadcast Contribution Receiver and Decoder Solution

Haivision StreamHub is a versatile solution for receiving IP video streams over mobile networks and the internet. StreamHub can decode live video from Haivision Pro and Air mobile transmitters, and Haivision Rack encoders using the two-time Emmy award winning SST technology for network aggregation. StreamHub can also receive live video from the Haivision MoJoPro mobile application, LiveGuest browser-based interviews, and SRT streams from Haivision Makito encoders as well as from third party sources. Its intuitive web user interface enables users to easily control and manage remote field units, optimize configurations, and monitor video transmissions with video thumbnails and advanced statistics.

StreamHub has been designed to meet the demanding requirements of broadcasters deploying video contribution systems over mobile and IP networks. Supporting both H.264 and HEVC with resolutions up to 4K UHD, StreamHub can be deployed on-premise or in the cloud for low latency transcoding and decoding to SDI, NDI, ST 2110, SRT and other IP outputs.

Key Features

Mobile Video Receiver and Decoder StreamHub can receive up to 16 concurrent incoming SST streams from remote Haivision mobile encoders and transmitters or third-party sources and supports a rich set of IP protocols including RTMP, RTSP/RTP, SRT, NDI, HLS, and TS/IP. Up to 8 live video streams can be simultaneously decoded to 8 SDI outputs with genlock for multi-camera synchronization. StreamHub also features video transcoding capabilities for adapting incoming feeds to desired output formats.

IP Distribution StreamHub supports multiple streaming protocols including SST, RTMP, RTMPS, RTSP/RTP, HLS, TS/IP, SRT, NDI, and ST 2110 so that video content can be easily distributed over IP networks for all types of destinations. Up to 32 outputs are supported, including duplicate streams, for sharing live content over LANs, WANs, CDNs, cloud platforms, Social Networks, and to other StreamHub receivers.

Video Recording And File-based Transcoding StreamHub combines video recording functions with a file-based video transcoder that enables media professionals to adapt content formats and resolutions for each destination.

Story Centric Workflows & Metadata StreamHub can be used to manually or automatically manage projects & metadata for smooth integration with news production workflows. Using the highly intuitive user interface, broadcasters and media producers can quickly and easily identify recorded content and live sources.

IP Data Bridge The StreamHub Data Bridge feature provides direct access to the Internet from a field unit. Optimized for remote production workflows, it also allows for remote control of IP based devices such as PTZ cameras.

IFB and Video Returns StreamHub includes a two-way IFB or audio intercom that enables broadcasters to communicate in real-time with up to 16 remote field unit operators. StreamHub can also manage video returns for providing remote operators with studio feeds, confidence monitoring, and teleprompters.

Multiviewer Monitoring The grid view includes preview thumbnails of video sources that can be assigned to a multiviewer output displaying up to 16 video sources on a single monitor. Broadcast professionals can define audio sources, output standards, and add information overlays for each source.

PLATFORM*Physical*

1 RU server platform

Software

Linux 64-bit server

Virtualized

Available as a virtual machine deployable on AWS, Azure, Google or other cloud platforms

VIDEO*Resolutions*

4K/UHD: 23.98/24/25/29.97/30/50/59.94/60
 HD: 1080p 23.98/24/25/29.97/30/50/59.94/60
 1080i 50/59.94/60
 720p 23.98/24/25/29.97/30/50/59.94/60
 SD: PAL, NTSC, 480p, 576p

Decoding

Codec: H.264/AVC (4:2:0 8-bit), H.265/HEVC (up to 4:2:2 10-bit)
 Bitrates: 100 Kbps up to 160 Mbps
 Rate control: VBR and CBR
 Up to 16x HD or 4x 4K decoding

Transcoding

Codec: h.264/AVC 4:2:0 8bits
 Bitrates: 100 kbps up to 20 Mbps
 Rate control: CBR
 Up to 8 HD live encoding

Processing

Video Down-scaling & Upscaling
 Interlacing and deinterlacing

AUDIO*Decoding*

MPEG-2 AAC-LC ISO/IEC 13818-7
 MPEG-4 AAC-LC ISO/IEC 14496-3
 AAC-HE v2
 MPEG-1 L2
 OPUS

Encoding

MPEG-2 AAC-LC ISO/IEC 13818-7
 MPEG1-L2
 OPUS

STREAMING PROTOCOLS*Inputs*

TS/IP (SPTS, UDP and RTP), RTSP/RTP, RTMP push and pull,
 HLS, SRT, SST (IP and cellular bonding), NDI
 IGMPv3 & SSM for TS multicast input

Outputs

TS/IP (SPTS, UDP and RTP), RTSP/RTP, RTMP, RTMPS push and
 pull
 HLS, SRT, SST (IP and cellular bonding), NDI, ST 2110

ADVANCED FEATURES

Metadata support for Live and Forward
 Time Code and ST 2038 ancillary data passthrough
 AES-67 and legacy intercom
 SST protocol
 IP Data Bridge Gateway
 AES encryption of SST contribution streams, video-returns and intercom audio
 MPEG2-TS and MP4 recording
 Transmuxing stream processing
 Streaming to social media platforms including YouTube, Facebook, and Twitch
 Multi-view output
 Video return management

INTERFACES*StreamHub Lite*

Dual GigE network interfaces
 1x 3G-SDI or 1x HDMI output

StreamHub Standard

Dual GigE network interfaces
 4 x 3G-SDI outputs (SD/HD) with genlock or 25GbE dual-port SFP28

StreamHub Ultra

Dual 10GbE network interfaces
 Up to 8 x 3G-SDI outputs or 4 x 12G-SDI outputs with genlock or 25GbE dual-port SFP28

MONITORING

Web-based GUI
 Comprehensive REST API for third-party management system integration
 Integrated with Haivision Manager
 NMOS IS-04, IS-05 and IS-09 for ST 2110

POWER

Dual Power 400W

PHYSICAL*Dimensions (W x H x D)*

43.7 cm x 4.3 cm x 42.9 cm (17.2" x 1.7" x 16.9")

Weight

11.43 Kg / 25.2 lbs

Operating Temperature

5°C to 35°C (41°F to 95°F)

Software Version: 4.4