

DATASHEET

Video Connectivity, Simplified.

Haivision Hub is an easy-to-use video network service for managing appliances, creating low latency video routes, and orchestrating workflows for media production and live broadcast contribution.





MANAGE ALL YOUR MAKITOS AND STREAM OVER ANY NETWORK.

Haivision Hub is a cloud SaaS for remotely controlling broadcast video appliances including Haivision Makito encoders, decoders, and Haivision SRT Gateways for both on-premise and cloud production workflows.

With Haivision Hub users can quickly create low latency live SRT streams that can be transported over an IP network, the internet or Haivision Hub's built-in cloud stream routing. Haivision Hub also includes cloud-based real-time transcoding for bandwidth optimization, downstream compliance, CDN delivery, and live streaming to social media outlets.

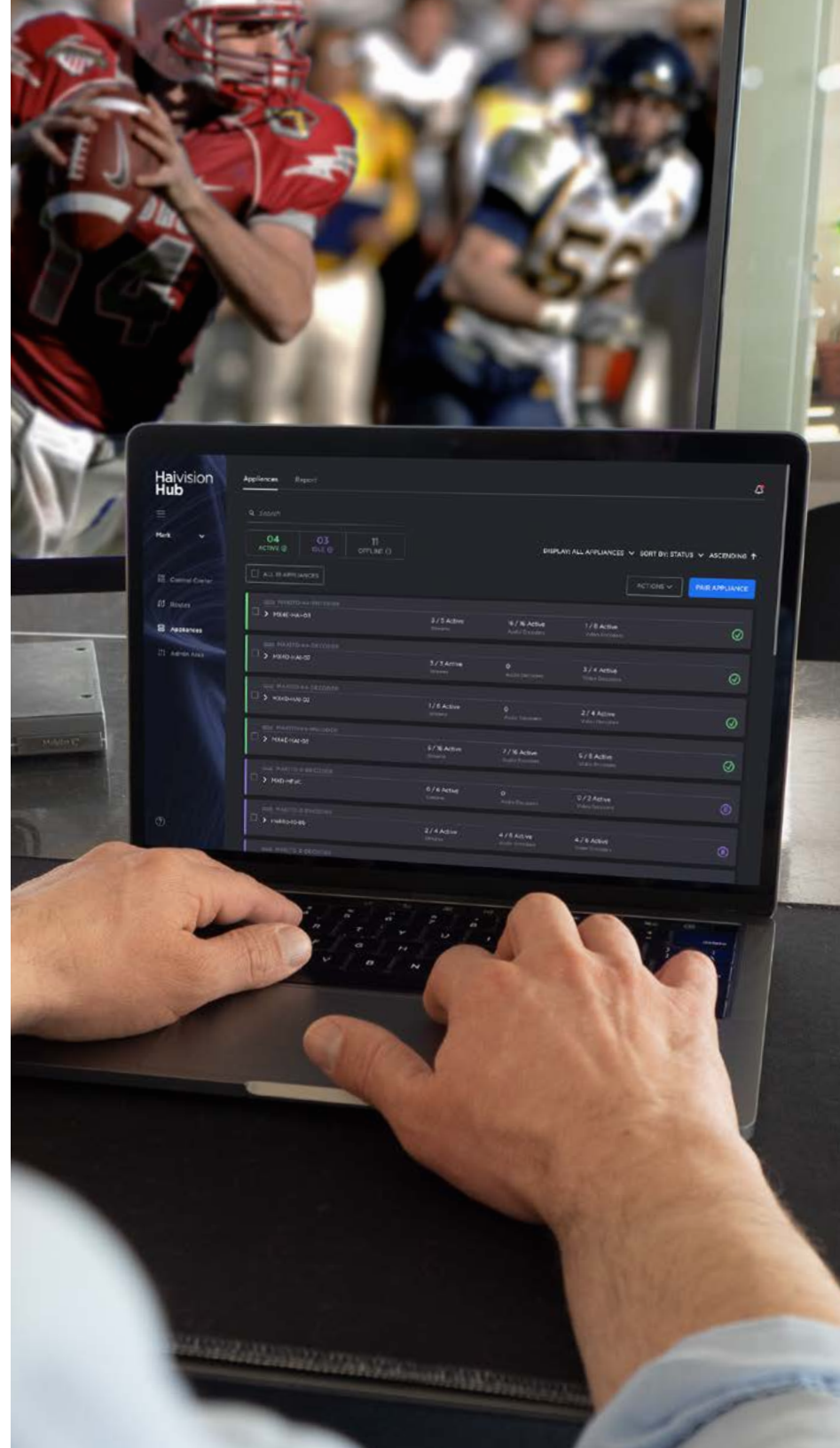
Simple to use and available from any web browser, Haivision Hub enables media professionals to build, manage, and monitor live video workflows spanning across the globe.



Makito X4 Appliance



Makito X & X4 Rackmount Chassis



FULLY REMOTE APPLIANCE MANAGEMENT

Remotely manage and control all your Makito encoders, decoders and Haivision SRT Gateways from your browser, no matter where they are located.

- Remote control – Encode and decode from anywhere, in HEVC and H.264
- Broadcast quality – Remotely configure Makito appliances for video resolutions up to 4Kp60 with 10-bit color and 4:2:2 chroma subsampling.
- Adapt to any workflow – Adjust frame rates and bitrates depending on production and bandwidth requirements.
- Set and forget – Create encoder and decoder presets for instant appliance configurations.

VIDEO ROUTING MADE EASY OVER ANY NETWORK

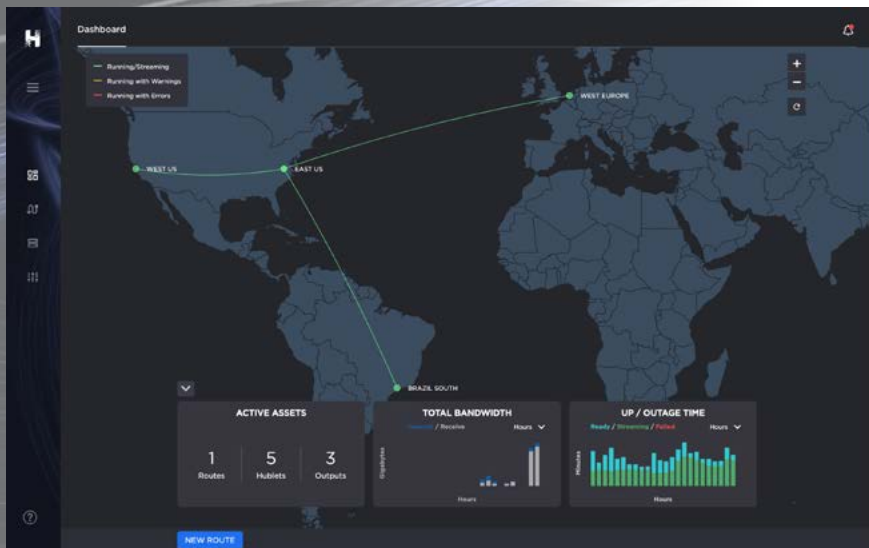
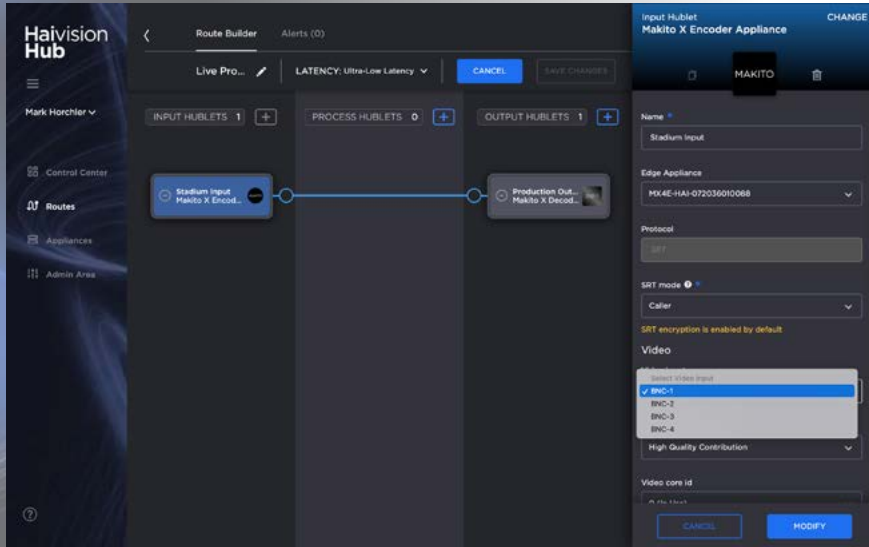
Haivision Hub's point-and-click user interface makes it easy for anyone to build a network of video routes by connecting devices and streams across different locations.

- Route video over any network – Encode, stream, and decode video over a private IP network, the Internet, and the cloud.
- Produce anywhere – Deliver live contribution feeds, with a simple click, to an on-prem video decoder, an SRT player, or a cloud-based live production suite.
- Agile orchestration - Modify and expand your routes by changing IP destinations and adding video outputs without interrupting your workflow.

SINGLE PANE OF GLASS MANAGEMENT

Haivision Hub enables you to manage live video routes, configure devices, transcode video, and monitor your entire video network within a single browser window.

- Complete oversight – See everything that is happening across your workflow no matter where your broadcast equipment and staff are located
- Monitor in real-time - By clicking on an input or output you can visually see what is being encoded or decoded to immediately detect any potential issues.
- Real-time statistics - Measure video route performance and bandwidth usage at any given time.



VIDEO NETWORK AS A SERVICE

Create a cloud-based video network for your broadcast production workflow.

- Low latency video - Relying on an SRT backbone and built upon a global cloud platform, Haivision Hub enables you to reliably stream video from one global region to another, in both directions, at very low latency.
- Mix and match IP networks - Include Haivision Hub cloud routes alongside private network and internet streams as part of a single unified workflow.

VIDEO TRANSCODING

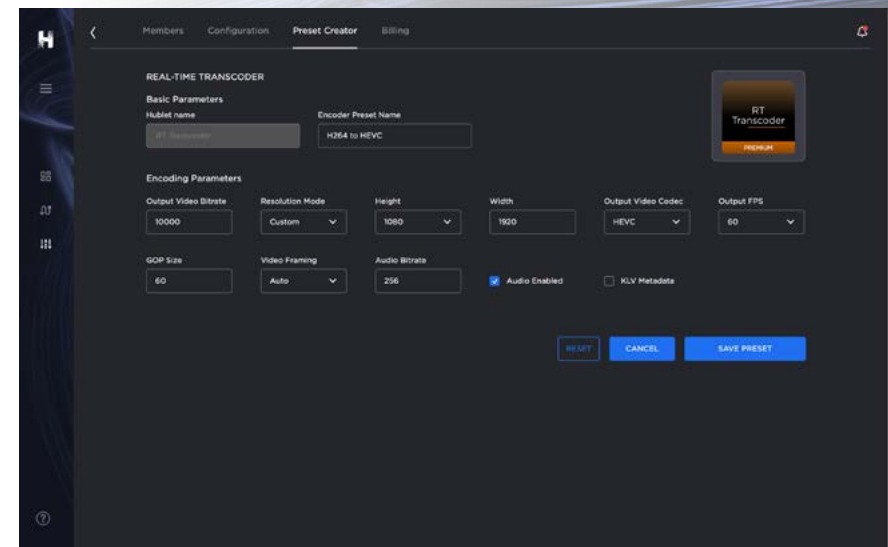
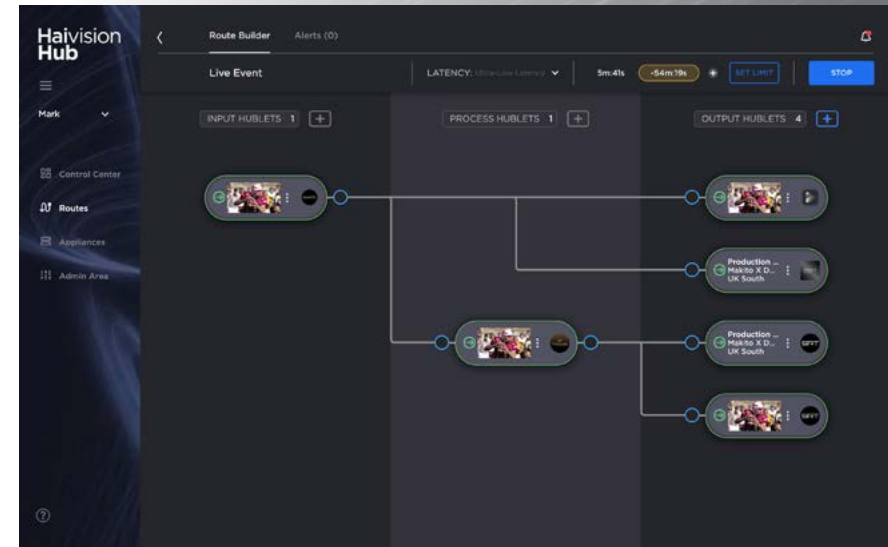
Optimize network bandwidth and adapt streams to different destinations in real-time.

- Real-time transcoding - Convert from H.264 to HEVC on the fly to significantly reduce bandwidth usage while maintaining high video quality.
- Powerful video processing - Advanced broadcast tools include transrating to different bitrates and changing frame-rates.
- Adaptive bitrates - Generate ABR cascades for delivery to CDNs.
- Simplified organization - Preset configurations for repeatable tasks.

AUDIO PROCESSING

Process and route multiple audio streams to multiple destinations, in real-time.

- Remap audio streams - When sharing the same live video content with multiple destinations, you can mix and match different audio content such as local language commentary and voice-overs.
- Mix audio - Combine tailored and regional commentary with primary audio streams.
- Filter audio - Reduce bandwidth and simplify workflows by only including the audio streams needed for each video output.





FOR ANY LOW LATENCY, HIGH QUALITY BROADCAST WORKFLOW

Haivision Hub enables major television broadcasters, market leading corporations, government agencies and houses of worship to build and manage low latency video workflows. By managing Makito encoders and decoders with Haivision Hub, users can route live streams over the internet, private IP networks, and the cloud using the SRT protocol, pioneered by Haivision, and supported by hundreds of broadcast vendors and services worldwide.

- ▶ Manage and monitor your entire global video network including Makito encoders, decoders, Haivision SRT Gateways, and routes all from a single screen.
- ▶ Transport real-time video streams with the lowest latency possible across any type of private IP network, the internet and the cloud.
- ▶ Built with security and reliability at its core, Haivision Hub leverages SRT and AES encryption ensuring only intended audiences can access streams.
- ▶ Leverage Haivision Makito video encoders and the SRT protocol to ensure broadcast quality video, in HD and 4K, over any network.
- ▶ Route live video content over a global cloud network with an SRT backbone.
- ▶ Transcode video in real-time between H.264 and HEVC for bandwidth optimization and downstream compatibility.
- ▶ A SaaS solution for flexible and agile video workflows.



EBU

OPERATING EUROVISION AND EURORADIO

“ The beauty of the Haivision Hub cloud solution integrated within the unique broadcast services delivered through our network, is that it offers our EBU broadcasters flexibility to do more interviews and create more custom feeds to meet increasing demand for tailored content without staff having to travel to the sports venue. ”

FRANCK CHOQUARD
HEAD OF CONTENT AND PLATFORMS | EUROVISION SPORT AT EBU

APPLIANCE MANAGEMENT

THE FOLLOWING DEVICES CAN BE PAIRED TO HAIVISION HUB FOR REMOTE MANAGEMENT, CONFIGURATION, AND STREAMING:

- Makito X Encoder
- Makito X1 Rugged
- Makito X4 Encoder
- Makito X4 Rugged
- Makito X Decoder
- Makito X4 Decoder
- Haivision SRT Gateway

USER INTERFACE

- HTML Browser based point and click
- Route dashboard with status indicators
- Preview Thumbnails per input and output
- Bandwidth Usage
- Up/Outage Time Notifications

CLOUD ROUTING

POINT AND CLICK ROUTE BUILDING

- Set route duration & overrun actions
- Add/delete additional outputs to a running route
- Select cloud regions
- Stream & protocol statistics

ADMINISTRATION & ARCHITECTURE

- Single sign-on (SSO)
 - Microsoft Azure Active Directory
 - Outlook.com
 - Gmail.com
- User management with multiple authorization roles
- Device and Transcoding Preset creation & management
- Device usage dashboard
- Cloud-native architecture
- Flexible and scalable microservices-based video processing
- Extensive global region support
- Haivision Hub REST API

VIDEO STREAM INPUTS

THE FOLLOWING TYPES OF VIDEO STREAMS CAN BE USED AS INPUTS FOR HAIVISION HUB CLOUD ROUTING*:

- MPEG TS over SRT
 - Latency buffer management
 - Caller/Listener modes
 - 128/256-bit AES encryption
 - Haivision Play Pro QR codes
- MPEG TS over UDP
- MPEG TS over RTP
- MPEG TS over RTP with FEC (SMPTE 2022-1)
- RTMP/RTMPS

VIDEO STREAM OUTPUTS

THE FOLLOWING TYPES OF VIDEO STREAMS CAN BE USED AS OUTPUTS FROM HAIVISION HUB CLOUD ROUTING*:

- MPEG TS over SRT
 - Latency buffer management
 - Caller/Listener modes
 - 128/256-bit AES encryption
 - Haivision Play Pro QR codes
- MPEG TS over UDP
- MPEG TS over RTP with FEC (SMPTE 2022-1)
- RTMP/RTMPS (including to YouTube and Facebook)
- Primary and Secondary Ingest URL
- Stream Key

REAL-TIME TRANSCODING HUBLET

- Video codec conversion - H.264 <-> HEVC
- Video de-interlacing
- Video resolution scaling
- Frame Rate conversion (fixed or auto-detection modes)
- Video framing conversion (GOP structure and size)
- KLV metadata passthrough
- Audio channel stripping

ABR TRANSCODING HUBLET FOR AKAMAI OUTPUT

- Aspect ratio locking
- Bitrate
- Resolution
- Output FPS
- Customize number of renditions
- CDN Push
- Output protocol including HLS, MPEG-DASH, CMAF
- CDN distribution URL
- Support for delivery to primary/backup configuration to CDN
- Audio channel stripping

AUDIO PROCESSING HUBLET

- Remap audio streams
- Mix audio streams
- Filter audio streams

* For video streams over the internet or private IP networks, Haivision Hub managed appliances can support other protocols in addition to SRT. Please refer to the Makito X4 Series, Makito X Series and Haivision SRT Gateway datasheets for more information.

Find Out More

Contact us to learn more about Haivision Hub.

haivision.com

NORTH AMERICA

+1 (877) 224-5445

INTERNATIONAL

+1 (514) 334-5445

sales@haivision.com

READY TO GET STARTED WITH HAIVISION HUB?

We can't wait to help you! Speak to one of our Haivision Hub experts.

CONSULT WITH AN EXPERT

HAIVISION IS TRUSTED
BY ORGANIZATIONS WORLDWIDE

