

BROADCAST

Broadcast with Confidence

High Quality and Low Latency Video
for Broadcast Workflows



Haivision
VIDEO AT WORK



Broadcast with Confidence

The world's leading broadcasters and media companies trust Haivision's video streaming and encoding solutions for 24/7 operation, high quality, low latency contribution and distribution workflows.

REDUCE VIDEO TRANSPORT COSTS

Reduce the barriers to more great content and save on network links by leveraging the public internet to transport video.

GET PEACE OF MIND WITH INTELLIGENT ENCODING

Overcome the challenges of video transport in remote workflows and news gathering with SRT (Secure Reliable Transport) over any network.

TRANSPORT VIDEO FROM ANYWHERE

Deliver high quality, reliable, low latency video over low-cost Internet connections.



7 FABIO



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BT Sport

"We were looking for a technology partner that could deliver cutting-edge technology. We chose Haivision because they offered low-latency coupled with high quality to get the result we needed."

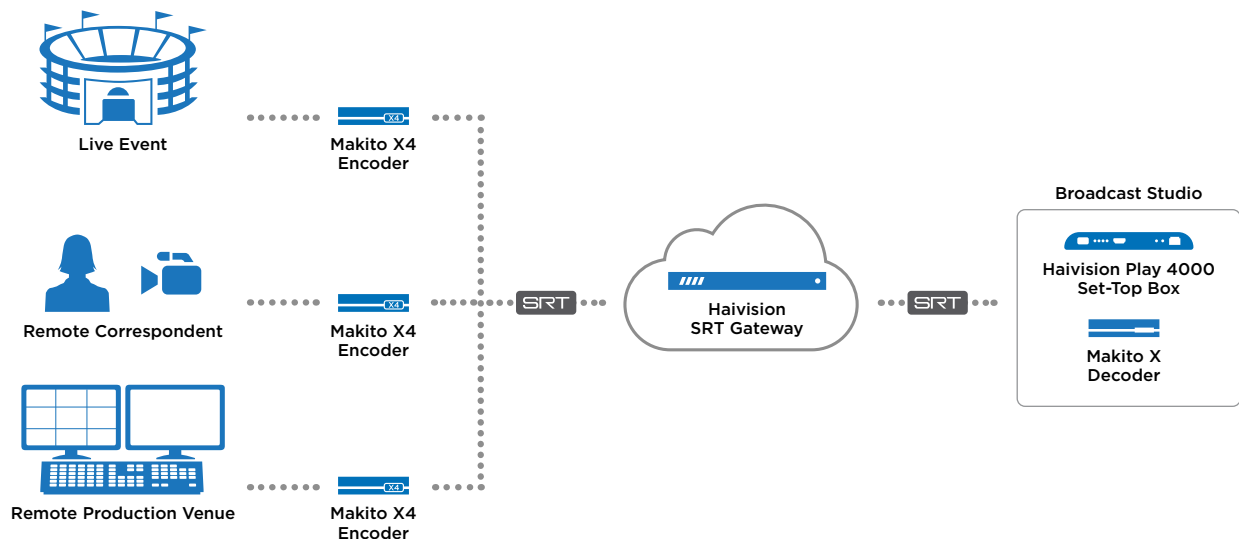
Jamie Hindhaugh, Chief Operating Officer - BT Sport



4K Field Contribution

GET LOW LATENCY LIVE VIDEO FROM REMOTE LOCATIONS TO BROADCAST CENTERS FOR PRODUCTION

Growing demand for more live and local coverage is presenting new challenges for today's broadcasters. Internet-based video transport offers a flexible and cost-effective alternative for sending video used in remote workflows and news gathering to broadcast centers. Haivision's Makito X4 4K video encoder sends high quality, ultra low latency streams over any type of network and condition, including LTE wireless networks, public internet and satellite links affected by weather.

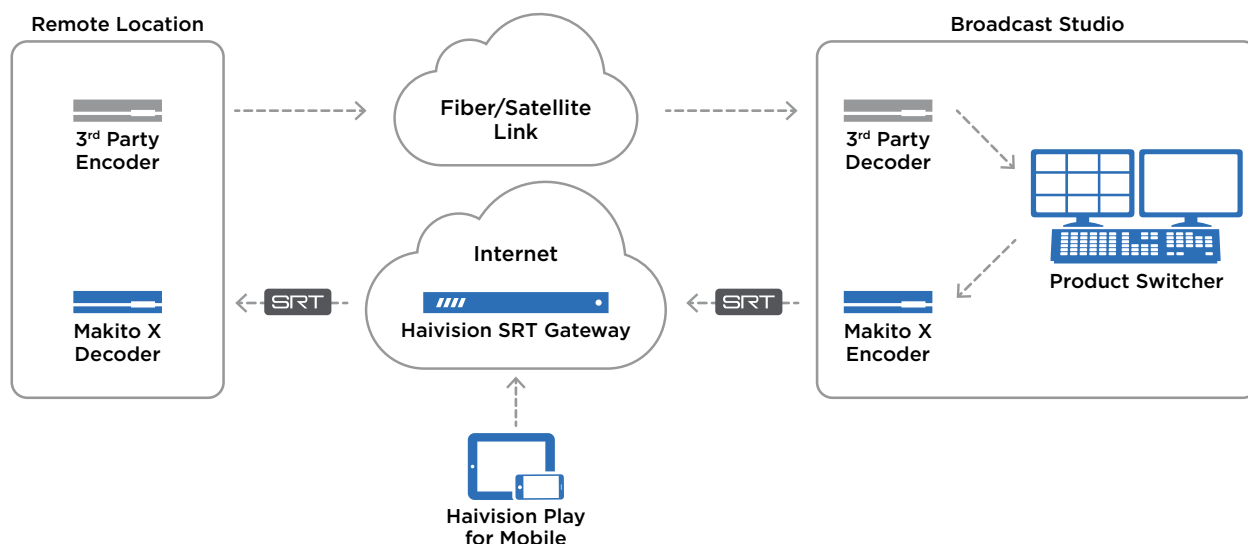




Confidence Monitoring & Return Feeds

SAVE ON ENCODING/DECODING COSTS AND NETWORK LINKS

Haivision's low latency, bidirectional solutions make sure your remote talent, directors and producers can see live shots before air and during broadcast, communicate for cues, and review broadcast feeds on portable monitors.

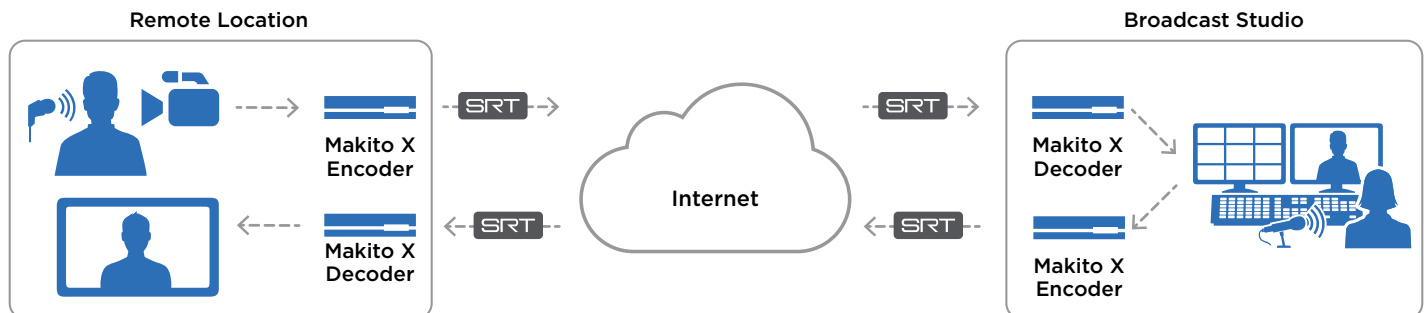




Live Bi-Directional Interviews

STREAM INTERVIEWS ON-AIR WITHOUT THE NEED FOR SATELLITE LINKS

Satellite and custom networks can be costly, difficult to schedule and require long lead times. With Haivision encoders, decoders and streaming gateways, you can deliver low latency, bi-directional HD video from venues and other remote locations to broadcast studios for live interviews. All you need is a public internet connection, Haivision video streaming solutions and the SRT protocol.

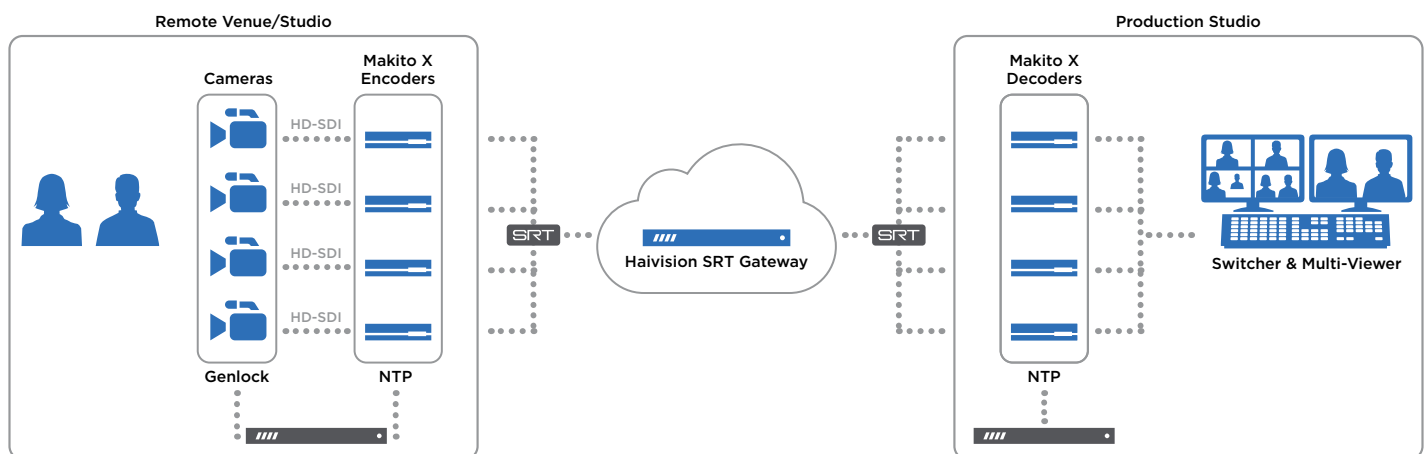




Remote Production

SYNCHRONIZE MULTIPLE STREAMS FROM OFFSITE LOCATIONS

Haivision remote production workflows allow you to cover a wide range of live events including sports, musical performances or news, without the costly overhead of deploying production teams and OB trucks to each site. By streaming synchronized, low latency multi-camera feeds from live events to the broadcast studio over cost-effective IP networks, you can satisfy the need for more content without the traditional costs or the logistical challenges.

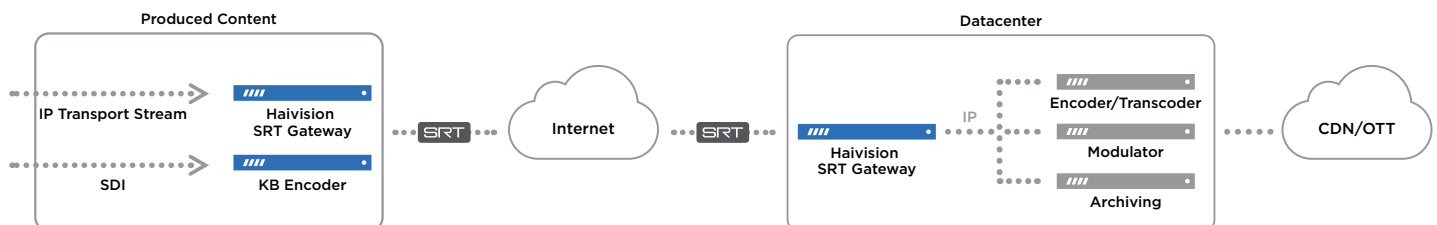




Live Linear to OTT

TRANSPORT LIVE LINEAR CONTENT OVER ANY NETWORK TO DATACENTERS FOR OTT DELIVERY

Haivision's live linear solutions allow media companies to transport live linear 24/7 channel content or live events to OTT datacenters for delivery, reducing the need for costly solutions such as satellite or fiber, and replacing them with flexible and secure IP workflows. Leveraging Haivision's networking technologies, Haivision live linear solutions give you cost-effective options to quickly deploy new channels, so you can satisfy your viewers growing demands for live content.

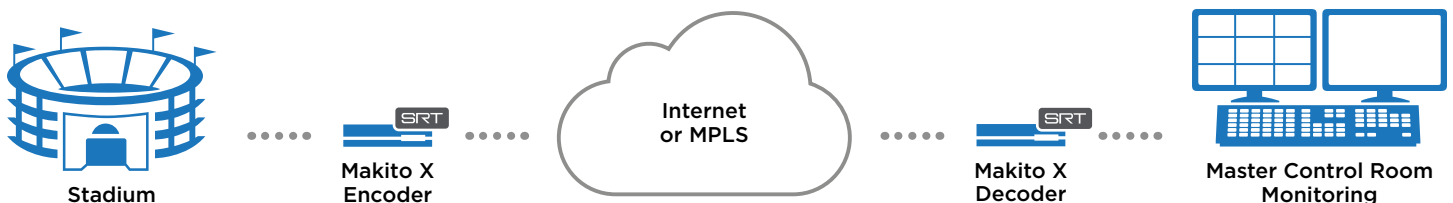




Replay Systems

MAKE DECISIONS FASTER WITH LOW LATENCY VIDEO TRANSPORT

Get high quality video where it needs to be instantly for replay systems, remote officiating and game analysis. Haivision's encoders and decoders are used by professional and college sports leagues to review game plays collaboratively in real-time. Low latency video ensures that game referees and officiators can make faster decisions and sports leagues can improve the overall game experience for the fans.



SRT

SECURE
RELIABLE
TRANSPORT

SRT IS A UNIQUE VIDEO TRANSPORT PROTOCOL THAT BRINGS THE BEST QUALITY AND LOWEST LATENCY LIVE VIDEO OVER ANY NETWORK.

Video Transport Over Public Internet

2% Packet Loss
4 Mbps H.264 TS/UDP

2% Packet Loss
4 Mbps H.264 with SRT

SRT

Live Source

2% Packet Loss
2.7 Mbps HEVC with SRT

SRT



OPEN SOURCE

Available on GitHub with Mozilla Public License (MPL 2.0), SRT is freely available to all developers.



PRISTINE QUALITY

Protect against jitter, packet loss and bandwidth fluctuation, so your viewers get the best viewing experience.



LOW LATENCY

Configurable control to deliver low latency video while overcoming network challenges.



SECURE STREAMS

End-to-end 128/256 bit AES encryption makes sure your content is protected from contribution to distribution.



Optimize streaming performance across unpredictable networks.

Ideal for first mile contribution workflows, SRT (Secure Reliable Transport) accounts for packet loss, jitter, and fluctuating bandwidth, maintaining the integrity and quality of your video. With SRT, you can keep your streams secure and easily traverse firewalls. SRT is included with all Haivision streaming solutions.

Haivision is a pioneer in high performance streaming solutions, the founder of the SRT Alliance and its SRT Open Source Project for low latency video streaming, and the original developer of the SRT protocol.

Haivision's Next Generation Video Encoder

Introducing

Makito X4

Video Encoder

4K & HD, ULTRA LOW LATENCY
& BROADCAST QUALITY

SRT
ORIGINAL



Makito X Video Encoder Series

LIVE LOW LATENCY H.264 & HEVC WORKFLOWS

Haivision's award-winning H.264 and HEVC video encoders and decoders enable ultra low latency end-to-end transport of secure, high-quality HD video, even over unpredictable networks.

MAKITO X4 4K AND HD

4K HEVC and HD H.264 live video encoder for ultra low latency streaming over IP.



MAKITO X H.264

Ultra compact SDI or DVI appliance with up to 4 high performance encoding cores.

MAKITO X WITH STORAGE

Available with 250GB of internal or removable solid state drive options. Storage options are available on most standard Makito X devices.



MB SERIES

Rackmounting in high density 1RU or 4RU chassis.

Transport Video Across Networks

Haivision SRT Gateway

Haivision SRT Gateway is a highly flexible and scalable broadcast solution for secure routing of live video streams across different types of IP networks. SRT Gateway provides broadcasters with cost-effective live video streaming to one or multiple destinations for content production and distribution.



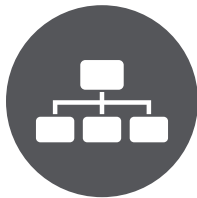
NETWORK BRIDGING

Route live content across a LAN, WAN, MPLS, the public internet, or any combination of network types.



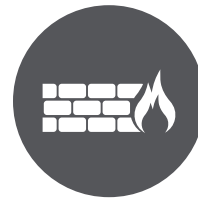
INTEROPERABILITY

Convert in real-time between video streaming protocols including SRT, MPEG Transport Stream over UDP (unicast and multicast), RTP, RTMP, RTSP, and HLS (output) protocols.



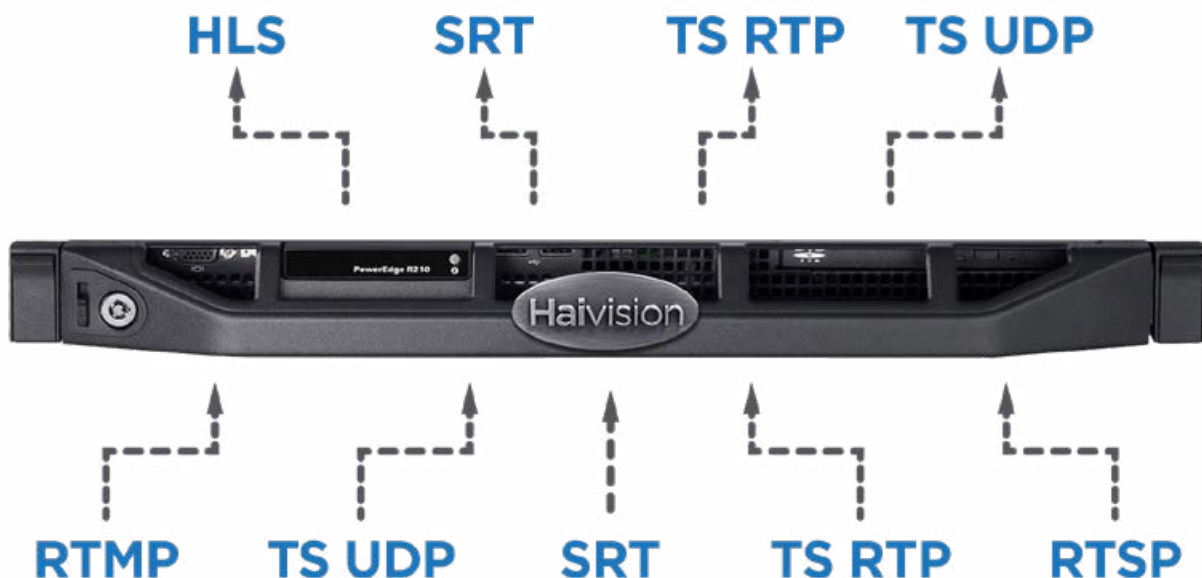
POINT-TO-MULTIPOINT STREAMING

Replicate incoming streams for 24/7 broadcast distribution as multiple outgoing streams, each configured to a specific protocol and network destination.

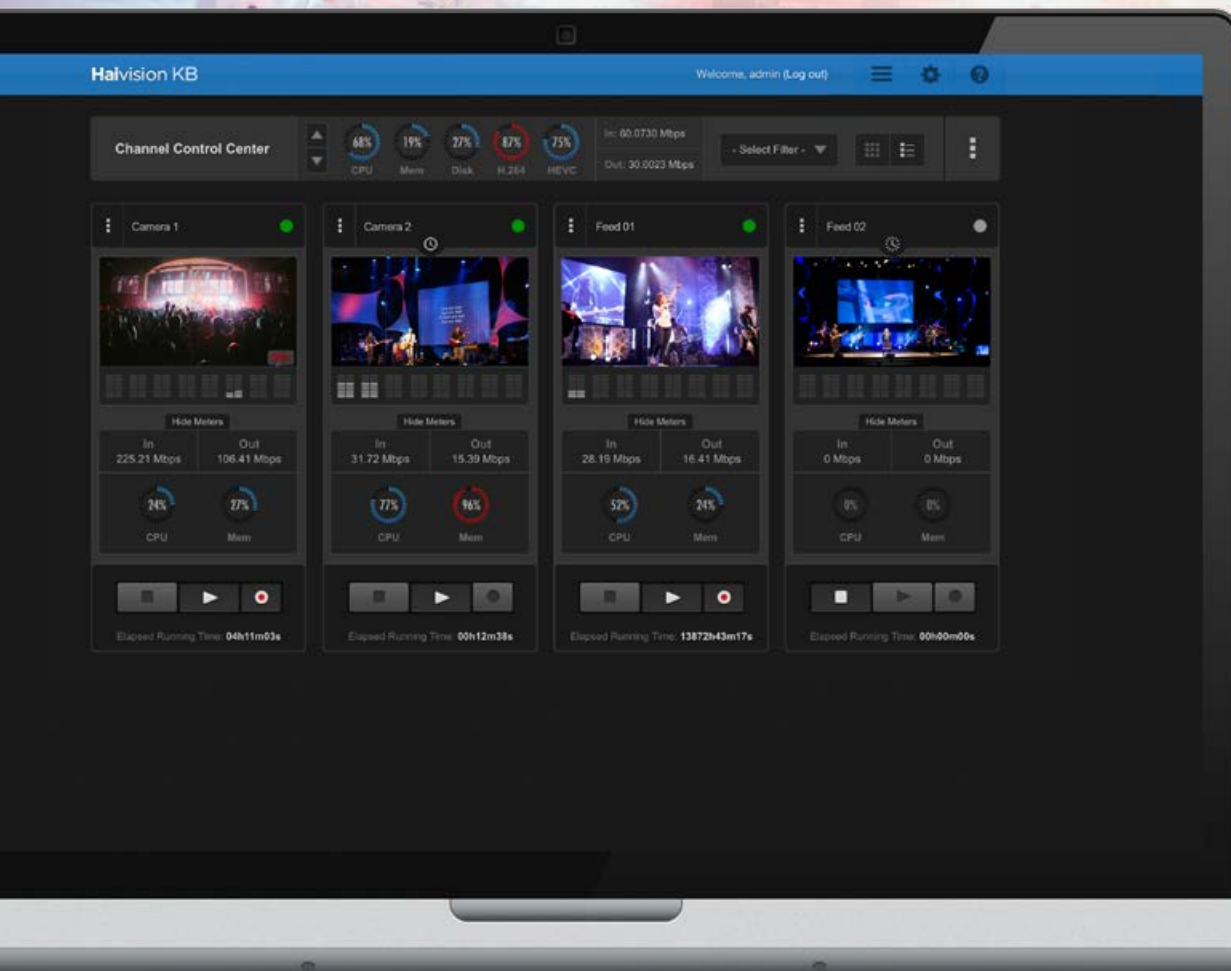


FIREWALL TRAVERSAL

Share streams outside your network without breaching network security policies and minimize the need for IT intervention.



Live Event Streaming to Your OTT Internet Audience



KB Series User Interface

KB Series

ABR INTERNET STREAMING WORKFLOWS

The KB Series of H.264 and HEVC Internet Media Encoders and Transcoders provides you with multiple options for live event streaming to OTT, helping you deliver the highest quality live video to your global Internet audience.

KB Series is available in four appliances:



KB MINI

Portable all-in-one live encoder/transcoder with hardware accelerated encoding. Delivers H.264 and HEVC cascades up to 1080p.

KB MAX

Portable all-in-one 4K streaming appliance with hardware accelerated encoding. Supports up to 4K/UHD 2160p H.264/HEVC.



KB SERVER

Rackmountable H.264 and HEVC encoding server with redundant power supplies, RAID configurations and support for up to four 1080p60 input channels.

KB 4K SERVER

Rackmountable H.264 and HEVC encoding server with redundant power supplies and hardware acceleration. Supports up to four 1080p60 channels or one 4K/UHD 2160p channel.



STREAMING CERTIFIED

KB Series has been tested and certified by a number of cloud service providers, online video platforms and CDNs.



Haivision Video Cloud





公司概况 Corporate Overview

Tencent

Tencent 腾讯

224,608,980

Tencent 腾讯

"The most important requirement for us is delivering the best viewing experience to online viewers and Haivision's Makito X Series delivers the lowest latency video from encoder to decoder."

Tracy Wen, Senior Engineer - Tencent Video

Tencent

The Haivision Edge

Emmy® Award-Winning Video Streaming

HIGH QUALITY

Haivision's solutions use open source SRT, a protocol that delivers secure, high quality and low latency live video over any network.

RESILIENT

Protect against jitter, packet loss and bandwidth fluctuation, preserving the best video quality possible.

LOW LATENCY

Configurable control to deliver low latency video while overcoming network challenges.

SECURE STREAMS

End-to-end 128/256 bit AES encryption makes sure your content is protected from glass-to-glass.

AWARDS



2018 Emmy® Award
TECHNOLOGY & ENGINEERING



Makito X Series
BEST ENCODING HARDWARE

Haivision Video Cloud
BEST LIVE STREAMING PLATFORM



SRT Open Source Protocol
TVBEUROPE BEST OF SHOW
AWARD AT IBC 2018:
PRODUCTION & POST



Makito X Series
BEST ENCODING HARDWARE

KB Series
BEST ENCODING SOFTWARE



Haivision
VIDEO AT WORK