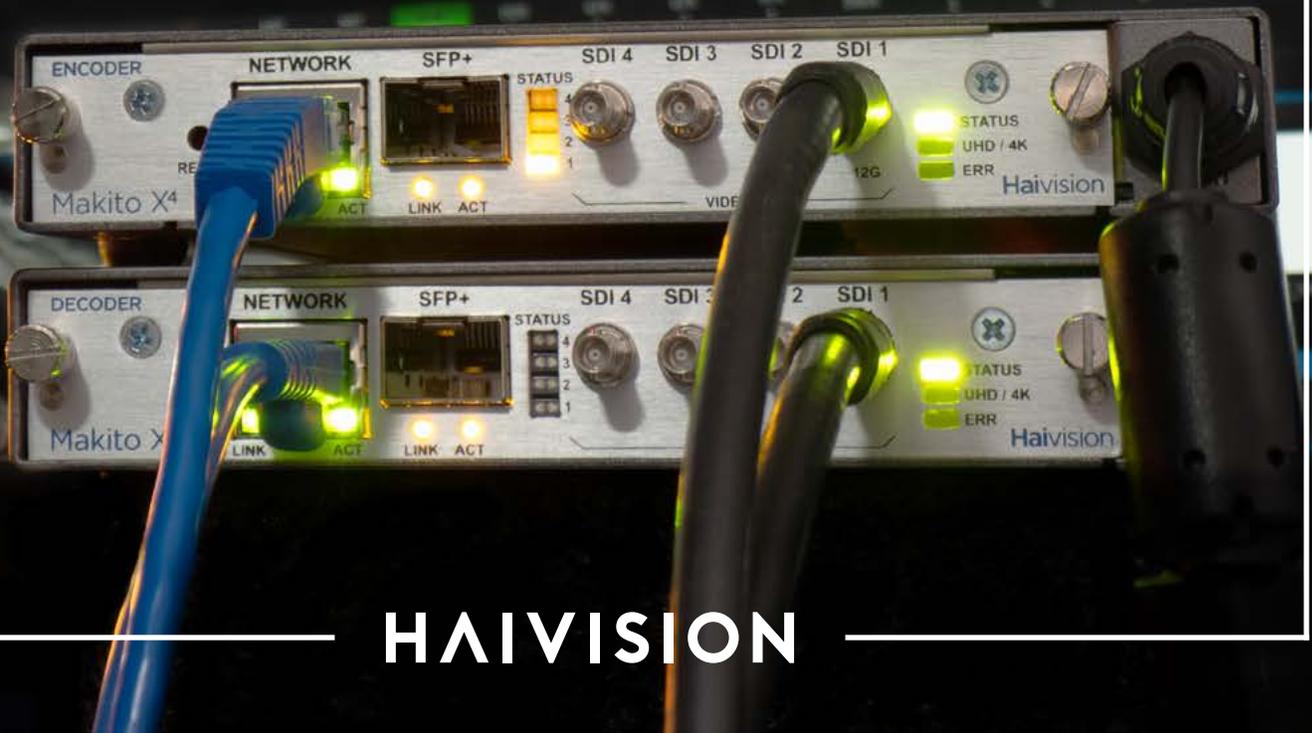


BROADCAST

Broadcast with Confidence

High Quality and Low Latency Video for Broadcast Workflows



HAIVISION



**EUROVISION
SPORT**
OPERATED BY EBU



Tencent 腾讯



HAIVISION

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

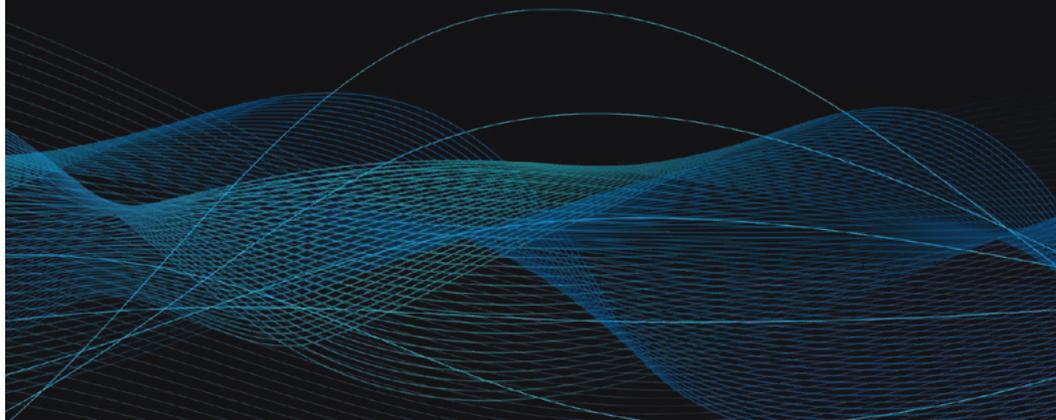
Reduce the barriers to more great content and save on network links by leveraging the public internet and cellular networks to transport video.

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.





“The beauty of the Haivision technology is that it turns right on, everything just lines up and locks in, video is being transported, and people are ready to go to work. It’s a testament to how battle-tested it is.”

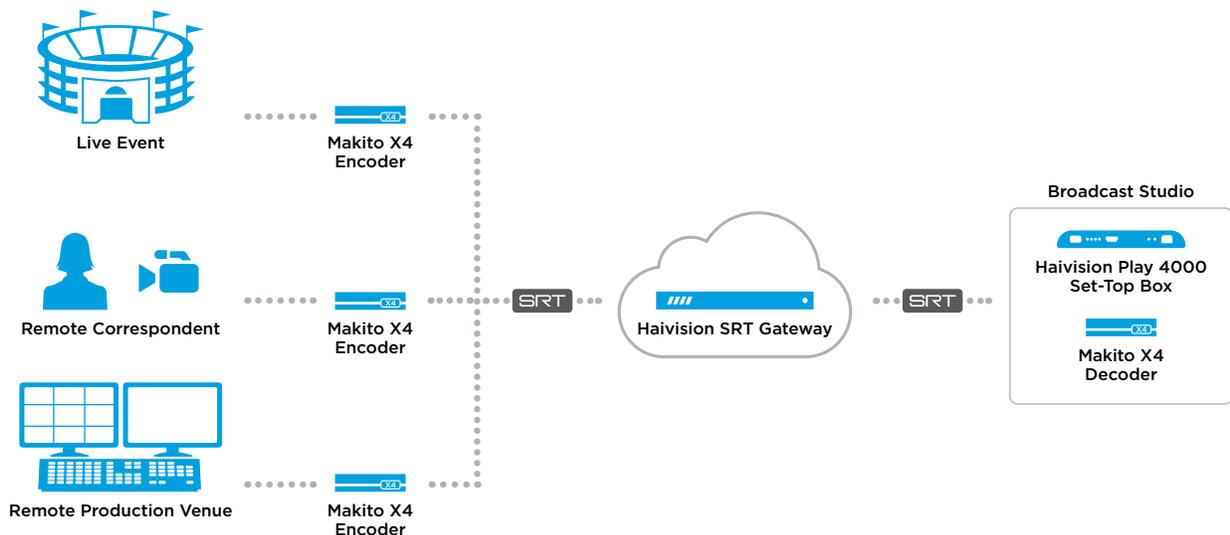
Brad Cheney, VP Field Operations and Engineering, Fox Sports



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 encoders and decoders send 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.

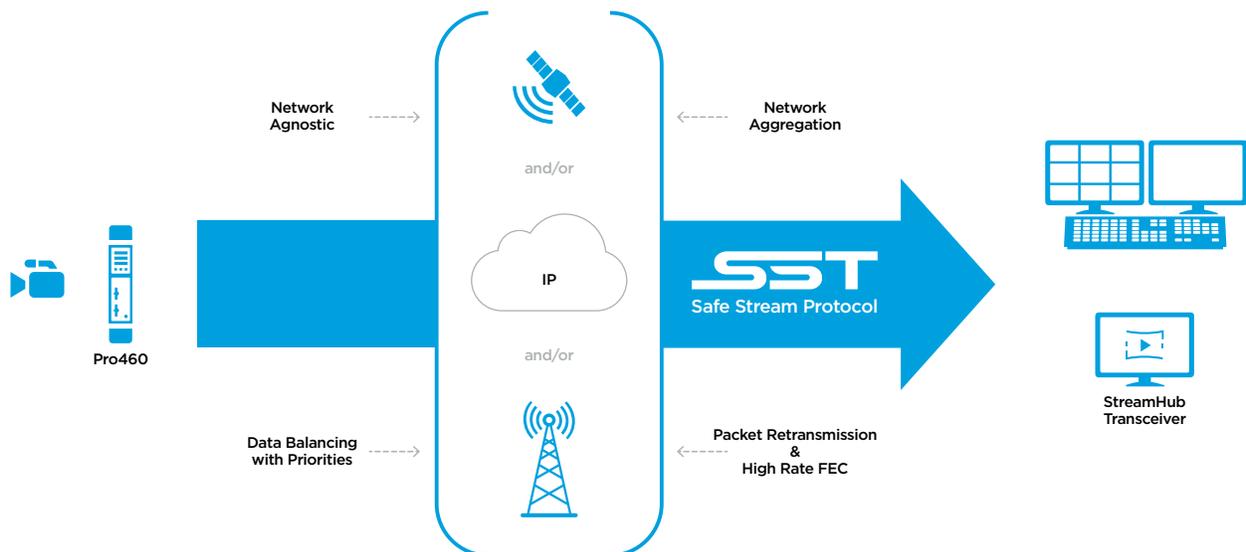




Video Contribution Over Cellular Networks

CONTRIBUTE LIVE VIDEO FROM ANYWHERE

Designed for portable, on-the-move and fixed location contribution of breaking news, live sports, and entertainment, compact and lightweight Haivision field units enable low-latency encoding and transmission of high-quality video over IP and cellular networks, including 5G.

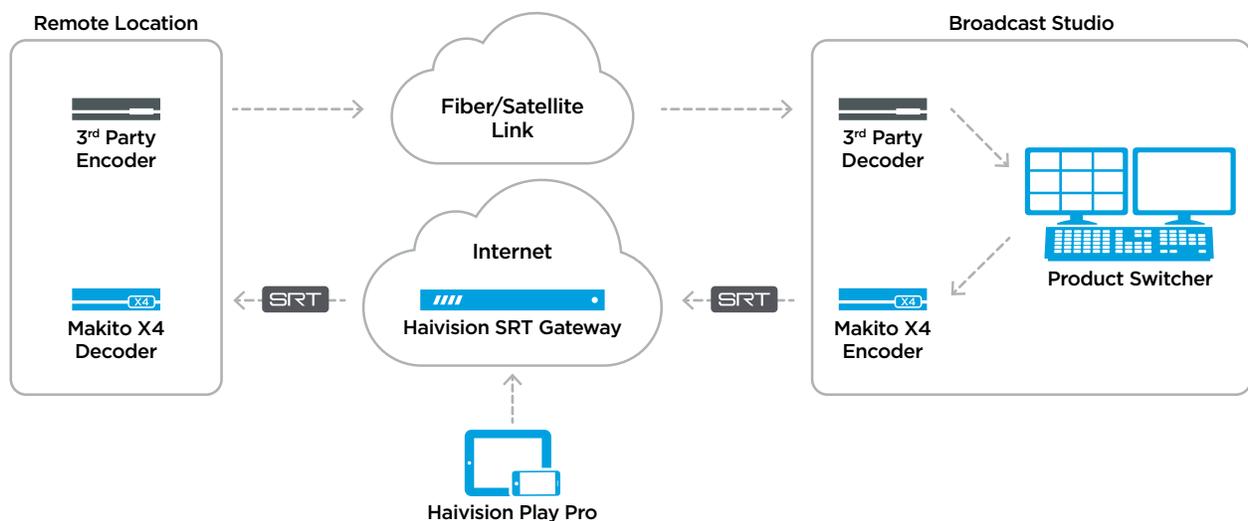




Confidence Monitoring & Return Feeds

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.

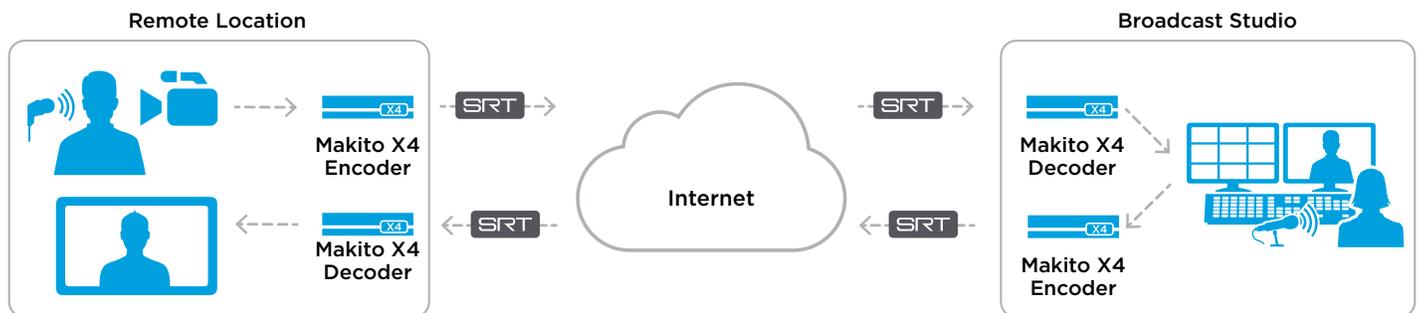




Live Bi-Directional Interviews

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.

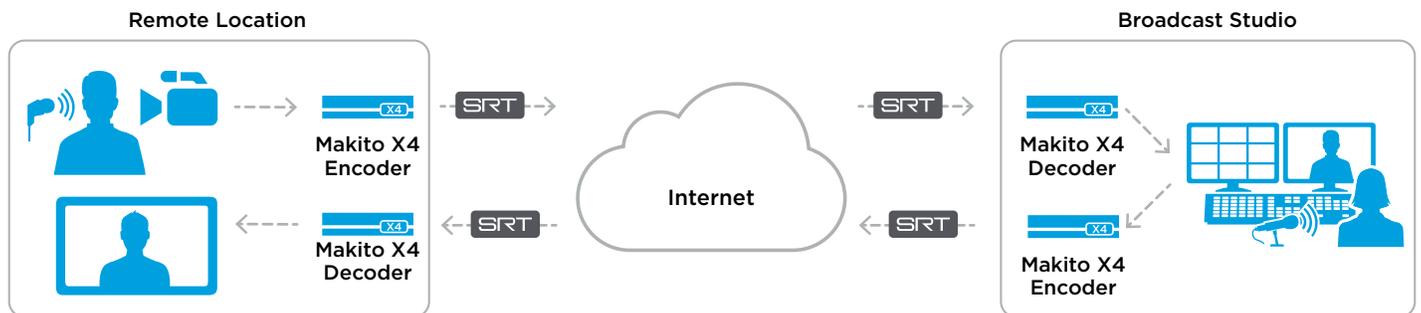




Remote Production

SYNCHRONIZE MULTIPLE STREAMS FROM OFFSITE LOCATIONS

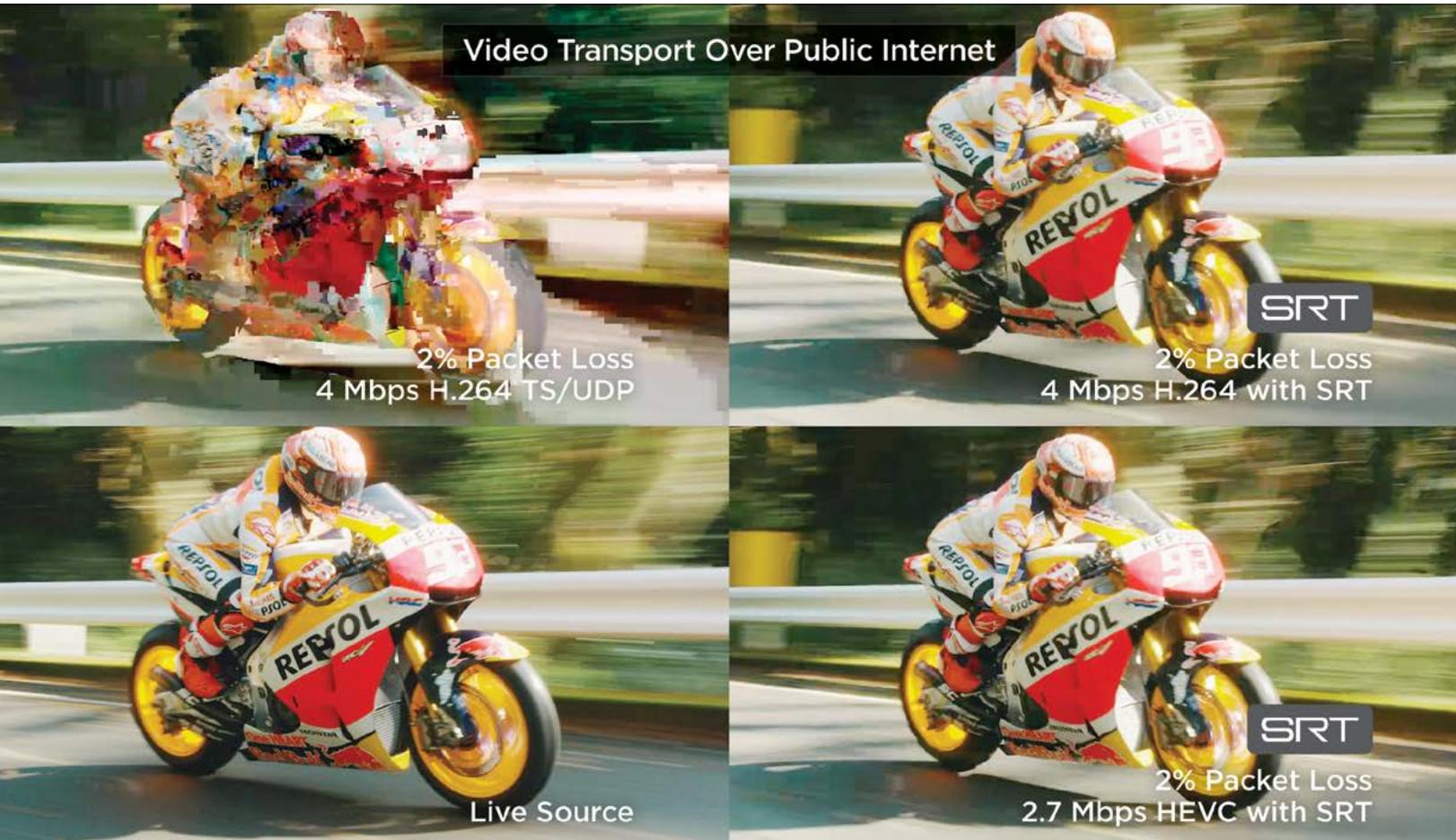
Haivision remote production workflows allow you to cover a wide range of live events including sports, musical performances or news, without the costly overhead of deploying production teams and OB trucks to each site. By streaming synchronized, low latency multi-camera feeds from live events to the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



SRT

SECURE
RELIABLE
TRANSPORT

SRT IS A UNIQUE VIDEO TRANSPORT PROTOCOL THAT BRINGS SECURE, HIGH QUALITY, AND LOWEST LATENCY LIVE VIDEO OVER ANY NETWORK.



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.

A Complete 4K Solution

Pristine Quality and Ultra-Low Latency HD, 4K UHD, and HDR Video



HAIVISION

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 ENCODER AND DECODER

The Makito X4 can encode live video with H.264 and HEVC for low latency, broadcast quality streams up to 4K/UHD video with 10-bit color depths for wide color gamut support and HDR. With 4 SDI inputs and an optional SMPTE ST 2110 input, the Makito X4 can simultaneously encode and stream up to 4 HD video sources for multi-camera remote production. The Makito X4 Decoder is the perfect companion to the Makito X4 Encoder for low latency end-to-end SRT video streaming.



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.

Video Transmitters, Field Units and Receivers

Haivision's industry-leading mobile IP-based video technology means broadcasters can now harness low latency transmission of live contribution over cellular networks with confidence.

HAIVISION PRO

The most reliable 4K UHD and multi-HD mobile video transmitter for newsgathering, live events and sports broadcast streaming over 5G. Suitable for backpacks or camera mounts.

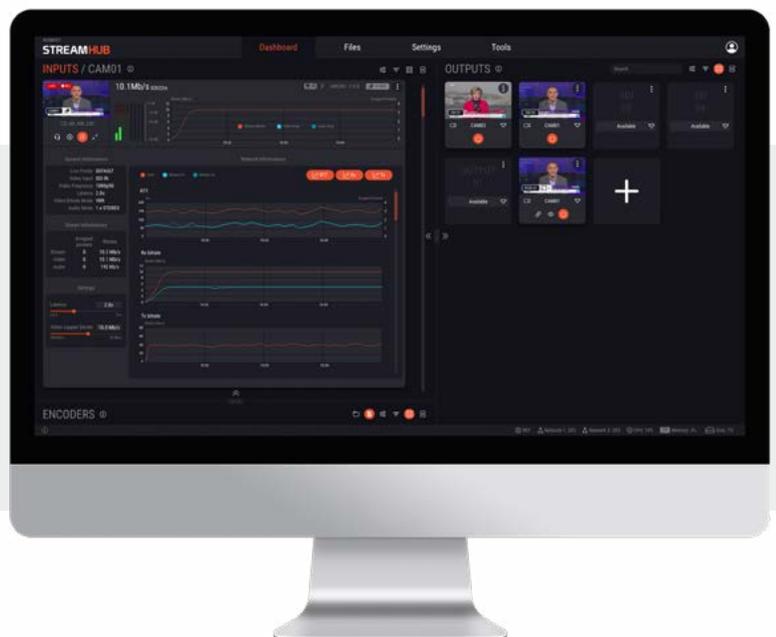


HAIVISION AIR

An ultra-compact and portable HEVC and H.264 encoder and mobile transmitter with a long-lasting and rechargeable battery for live video contribution with 5G, 4G=LTE and 3G connectivity.

HAIVISION STREAMHUB

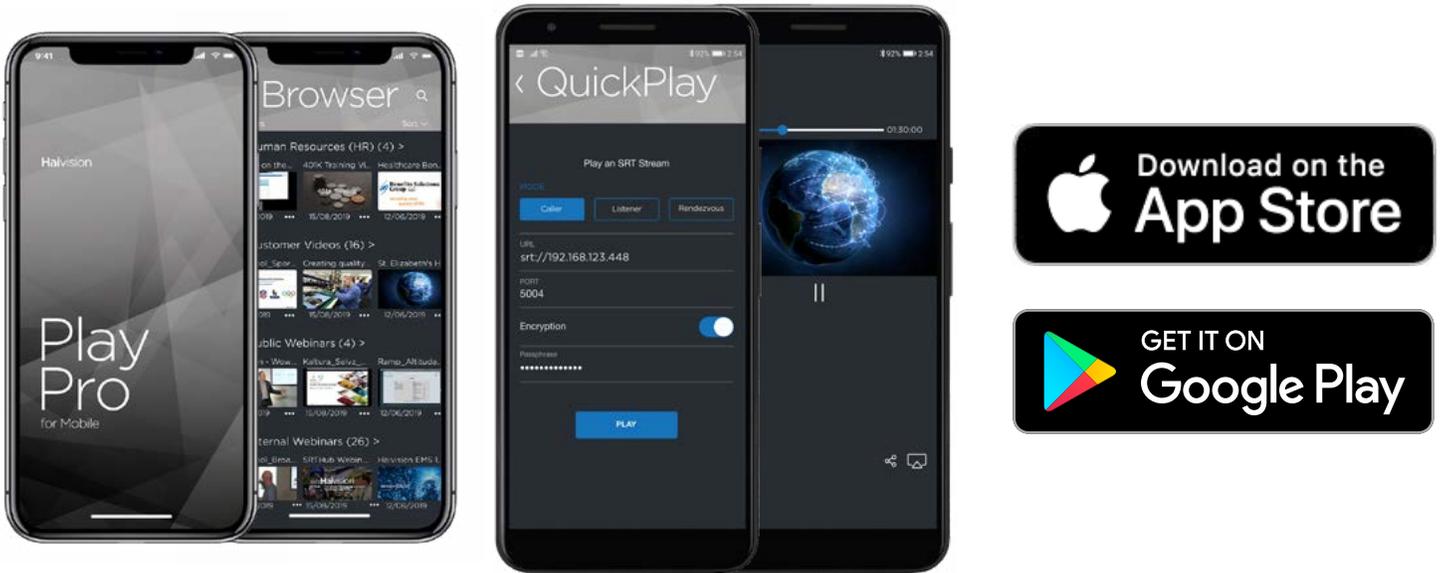
A powerful and flexible receiver and distribution platform, Haivision StreamHub can receive, decode, transcode, and distribute live video streams from any Haivision mobile transmitter or third-party system.



Haivision Play Pro

WATCH AND CREATE SRT STREAMS ANYWHERE, FOR FREE!

Haivision's free app for Android & iOS lets you watch and create SRT streams on your mobile device. With SRT, you can view high-quality live video even over unpredictable networks like the public internet.



FLEXIBLE STREAMING AND MOBILE CONTRIBUTION

Haivision Play Pro is the easiest way to watch live SRT video anywhere. When you're in the field or working remotely, Play Pro allows you to monitor broadcast streams including on air content, as well as teleprompter and live program return feeds. Using the SRT protocol and public internet can provide a cost-effective, low-latency way of getting feeds to the team members that need them.

Need to create a stream quickly? Play Pro allows you to use a mobile device as a camera to reliably feed video as an SRT stream using a standard internet connection over wifi or mobile network.



PLAY SRT STREAMS

Watch SRT Streams from anywhere.



CREATE AN SRT STREAM

Create video as an SRT stream directly from a mobile device.



SAVE CHANNEL LISTS

Easily monitor multiple feeds with saved channel lists.



SUBSCRIBE TO SHARED LISTS

Publish channel lists for secure subscription and auto-updating.



“No other company offers the compact form factor of the Makito X4, which allows us to simultaneously send streams from four cameras in sync back to our studio in 200 milliseconds. It’s really been a game-changer.”

David Sullivan, Senior Broadcast & Media Engineer
Philadelphia Eagles

Emmy® Award-Winning Video Technology

HIGH QUALITY

Haivision's solutions include native support for 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 fluctuations, preserving the best video quality possible.

LOW LATENCY

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

SECURE

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

AWARDS



Emmy® Award
TECHNOLOGY & ENGINEERING



Top Companies
in Online Video 2021



Haivision Pro460 Mobile Video
Encoder & Transmitter



Makito X4
BEST SINGLE- OR DUAL-STREAM
ENCODING APPLIANCE

