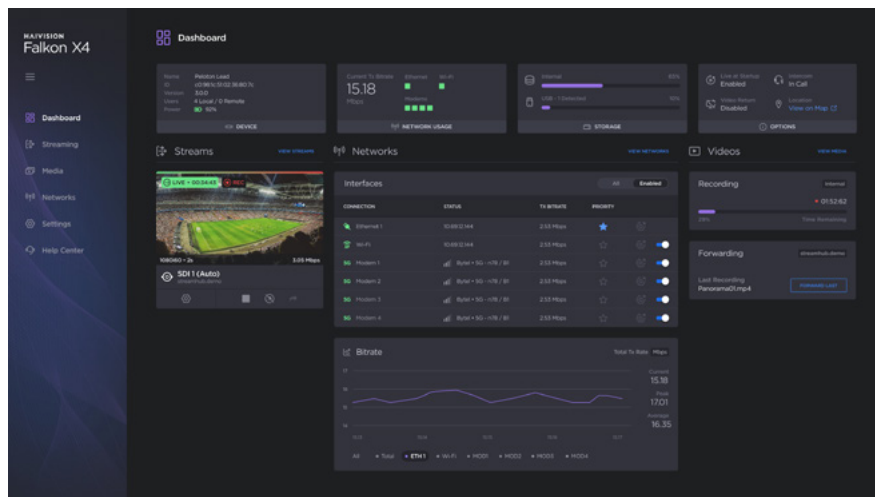


4K UHD Video Encoder and Bonded 5G Transmitter

The Haivision Falcon X4 is your ultimate mobile solution for live video contribution—delivering stunning 4K UHD quality with ultra-low latency over public and private 5G networks. Powered by four 5G modems with 2x2 MIMO technology the Falcon X4 ensures rock-solid connectivity with Haivision's Emmy® Award-winning SST bonded network technology.

Built for premium sports, news, and entertainment content, it offers real-time HEVC and H.264 video encoding with HDR, 4:2:2 chroma subsampling, and 10-bit color for exceptional image fidelity at minimal bandwidth. Whether you are contributing to remote, on-prem, or cloud production workflows, the Falcon X4 can transmit live video with as little as 100 milliseconds of latency. Coupled with a StreamHub receiver, Haivision gives you complete ownership of your valuable content with point-to-point streaming and no subscriptions required.

Compact, camera-mountable, and backpack-friendly, the Falcon X4 offers intuitive control via an integrated touchscreen, the browser-based user interface, and the Haivision Hub 360 appliance management solution. Advanced features two-way intercom, low-latency HD video returns, and remote camera control keep your team fully connected from field to studio. For situations that require recorded content, including while broadcasting live, the Falcon X4 can store up to 24 hours of HD video and progressively transfer files to your post-production team. Wherever the story takes you, the Haivision Falcon X4 delivers broadcast-quality video without compromise.



FEATURES

4K Video Quality

BENEFITS

Encode 4K UHD, HD, and HDR, up to 4:2:2 10-bit, in HEVC and H.264 for premium broadcast productions.

Quad-5G and 2x2 MIMO

4 high-performance 5G modems and 8 antennas ensure a robust high-bandwidth connection even in unpredictable network environments.

Ultra-Low Latency

Transmit live video over public and private 5G networks with latency as low as 100ms.

Video Return and IFB

Receive low-latency full HD return feeds via SDI and HDMI outputs for on-air programs, teleprompting, and confidence monitoring.

Record & Progressive Forward

Record video while broadcasting live and enable progressive file-forwarding for immediate post-production.

Synchronized Remote Production

Ensure frame-accurate synchronization across multiple transmitters with embedded time stamps in each SST stream.

Remote Camera Control

Remotely control your camera settings and PTZ movement via the integrated serial interface for easy setup in the field.

VIDEO*Standards:*

UHD: 2160p60/59.94/50/30/29.97/25/24/23.98
 HD: 1080p60/59.94/50/30/29.97/25/24/23.98
 1080i60/59.94/50
 720p60/59.94/50

Encoding:

H.265/HEVC 4:2:0 | 4:2:2, 8-bit | 10-bit
 H.264/AVC 4:2:0, 8-bit
 SDR and HDR - HLG or PQ (ST 2084)
 Dynamic resolution adjustment

Bitrates:

HD: 300 Kbps to 20 Mbps
 UHD: 300 Kbps to 80 Mbps
 Constant Bitrate (CBR) &
 Variable Bitrate (VBR)

Inputs:

12G SDI
 HDMI 2.0

AUDIO*Encoding:*

AAC-LC

Bitrates:

32 Kbps to 256 Kbps

Mode:

Mono, Stereo

Density:

Up to 4 Stereo or 8 Mono

Inputs:

Embedded over SDI or HDMI

NETWORK CONNECTIONS*Cellular:*

- 4 x 3G/4G/5G world-wide compliant modems
- Sub 6GHz bands
- SA (Standalone) and NSA (Non Standalone)
- Internal high efficiency antennas (2 x 2 MIMO)

Ethernet:

1 x Gigabit Ethernet port
 - LAN, WAN

Wi-Fi:

- Wi-Fi 6/6E (2.4GHz, 5 GHz and 6 GHz)
- 802.11a/b/g/n/ac/ax
- Internal high efficiency antennas (2 x 2 MIMO)
- Client & Hot Spot modes

Transport Protocol

SST over Cellular/Ethernet/Wi-Fi (bonding)

INTERFACES

- 1 x 12G SDI input
- 1 x HDMI 2.0 input
- 1 x 12G SDI output for loopback or video return
- 1 x HDMI 2.0 output for video return
- 6-pin interface for camera control
- 1 x Gigabit RJ-45 Ethernet
- 2 x USB 3.0 (type C)
- 4 x micro SIM slots
- 1 x mini jack for IFB/intercom headset

ADVANCED FEATURES*Video Encoding:*

Video downscaling at a fixed resolution

Streaming:

- Sub-second glass-to-glass latency (as low as 100ms on private 5G network, and 500ms for other networks)
- AES encryption of live broadcasts
- IP Data Bridge for using the device as a mobile router
- Simultaneous live broadcasting and IP traffic (for remote camera control)
- Prioritize Network Links (user configurable)

Video Returns:

- Full HD video return with AES encryption
- Sub-second latency

Video Recording:

- Recording to internal memory (128 GB)
- Standalone or simultaneous recording during live broadcast
- Transfer of files during or after recording

User Interface and Operations:

- Video and Audio level preview
- Remote dynamic latency adjustment during a live broadcast
- Automatic Live Start

Intercom:

- Intercom/IFB with AES encryption
- Bluetooth or wired headset

Camera control

- Embedded camera control (shading) as a licensed option

Metadata:

- Closed Captions EIA/CEA/CTA-608/708
- SMPTE-12M timecode passthrough
- SMPTE-2038 (transparent carriage of ancillary data)
- Geolocation (GPS, Galileo, Glonass, and Beidou)

CONTROL & MONITORING

- Embedded touch screen
- Web UI from any browser
- From Haivision Hub 360 and StreamHub transceiver

POWER*Power Supply:*

- Internal battery for external battery swap
- USB-C to charge the battery or powering the unit (60W min)
- External battery with V-Mount or Gold-mount plates

PHYSICAL*Dimensions (W x H x D):*

25.8 cm x 8.4 cm x 12.0 cm (10.07" x 3.30" x 4.72")

Weight:

1.32 Kg /2.9 lbs

Operating Temperature:

-5°C to 45°C (23°F to 113°F)

Software Version: 3.0**Falcon X4 Transmitter Product Portfolio & Ordering Information: ***

Falcon X4 - V-Mount Backpack

S-FX4-V-BPK

Falcon X4 Transmitter - 4K/UHD, 4x5G Modems, V-Mount, Accessories, Backpack

Falcon X4 - V-Mount Case

S-FX4-V-CASE

Falcon X4 Transmitter - 4K/UHD, 4x5G Modems, V-Mount, Accessories, Case

Falcon X4 - G-Mount Backpack

S-FX4-G-BPK

Falcon X4 Transmitter - 4K/UHD, 4x5G Modems, Gold-Mount, Accessories, Backpack

Falcon X4 - G-Mount Case

S-FX4-G-CASE

Falcon X4 Transmitter - 4K/UHD, 4x5G Modems, Gold-Mount, Accessories, Backpack, Case

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