

Ultra-Compact Video Encoder and Bonded Cellular Transmitter

Haivision Air is a range of mobile video transmitters for broadcasting live news, sports and other types of events from anywhere over bonded cellular and IP networks. Designed to be extremely compact and portable, the Haivision Air transmitter encodes high quality video from SDI and HDMI sources, to H.265/HEVC or H.264/AVC at very low latency. Real-time video streams can then be transmitted with SST (Safe Streams Transport) over a bonded pair of 3G/4G or 5G modems, depending on the model. Haivision Air can also transmit live video over the public internet the SRT protocol with Ethernet or WiFi connectivity.

Other advanced features include the ability to simultaneously record live broadcasts which can be forwarded on as a progressive file, automatically sent as a clip once a recording has finished or stored on a local SD card. Haivision Air operators also benefit from receiving low latency return feeds to an external display and bidirectional IFB audio for real-time interaction with the production team. All of these features and more can be easily accessed from the Haivision Air's intuitive front panel display.



Simple

Haivision Air features an intuitive user interface enabling camera operators to broadcast live in seconds.



Versatile

Compact, lightweight, and featuring a rechargeable battery, the Haivision Air is the ideal travel companion for camera operators and mobile journalists who need to go live at any time.



High Performance

Encode, record, and transmit HD video in HEVC or H.264 at very low latency for reliable and high-quality sports, news, and live event coverage.



Any Network

Haivision Air supports the Emmy® award winning SST (Safe Stream Transport) and SRT (Secure Reliable Transport) protocols for reliable video streaming over bonded cellular and IP networks.

	Air320e-5G	Air220-5G	Air220	Air200
H.265/HEVC encoder	•			
H.264/AVC encoder	•	•	•	•
Embedded cellular modems	5G/4G/3G	5G/4G/3G	4G/3G	
4 extension links (Wi-Fi, Ethernet, USB)	•	•	•	•

Main Functions

Live & Auto-Record Broadcast premium quality video live over bonded cellular and IP networks: 5G/4G/3G, Ethernet, Wi-Fi, and satellite Ka and Ku Bands. Live broadcasts can be simultaneously recorded on an SD card.

Rec & Progressive Fwd For non-live applications, video files can be shared with production as they are being recorded or automatically forwarded once a recording is complete.

Data Bridge Leverage SST's bidirectional data support by using a Haivision Air as a mobile router for establishing a high-speed internet connection from anywhere.

Video Return and IFB Ensure communication between the producer, camera operator & on-air talent with high-quality HD return feeds and bidirectional audio intercom.

VIDEO*Standards*

HD: 1080p25/29.97/30/50/59.94/60
1080i50/59.94/60
720p50/59.94/60

SD: PAL, NTSC

Encoding

H.265/HEVC 4:2:0, 8-bit
H.264/AVC 4:2:0, 8-bit
Dynamic resolution adjustment

Bitrates

200 Kbps to 20 Mbps
Constant Bitrate (CBR)
Variable Bitrate (VBR)

Inputs

SDI, HDMI

AUDIO*Encoding*

AAC-LC

Bitrates

32 Kbps to 256 Kbps

Mode

Mono, Dual Mono or Stereo 2.0

Density

Up to 2 Stereo or 2 Mono

Inputs

Embedded (SDI, HDMI), Analog (L/R)

NETWORK CONNECTIONS*Cellular*

2 x 5G/4G/3G or 2 x 4G/3G worldwide compliant modems with high gain custom antennas (sub-6 GHz).
Extensible with external modems (2 x USB ports)
IPv4 and IPv6 compliant

Ethernet

Gigabit Ethernet port
- LAN, WAN
- Portable satellite (BGAN, Ka and Ku Band)

Wi-Fi

Dual band Wi-Fi modem 802.11b/g/n/ac (MIMO 2.4 GHz and 5 GHz)
- Client & Hot Spot modes
- High-efficiency embedded antenna

Transport Protocols

SST over Cellular/Ethernet/Wi-Fi (bonding)
SRT over Ethernet (caller and listener modes)

ADVANCE FEATURES*Video Encoding*

Dual encoding for simultaneous Live & Record

Streaming

Sub second glass-to-glass latency (down to 500 ms)
AES encryption of live broadcasts
IP Data Bridge for using the device as a mobile router
Prioritize Network Links (user configurable)

Recording

Transport Stream and MP4 file formats
Automatic file forwarding

Video Returns

Full HD video return
Sub-second latency
AES encryption
Return feed generation

User Interface and Operations

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

Audio

Intercom/IFB
Bluetooth or wired headset

Metadata

Geolocation (GPS and Galileo)

INTERFACES

1 x 3G-SDI input (BNC), 1 x 3G-SDI output (BNC)
1 x HDMI 1.4 input, 1 x HDMI 1.4 output
1 x RJ-45 Ethernet
2 x USB 3.0 (type-A)
1 x 3.5 mm audio jack (for IFB / intercom headset)
2 x mini XLR balanced (for analog audio)
1 x SD card slot
4 x micro SIM slots

CONTROL & MONITORING

On screen display
Web GUI (through laptop, smartphone, etc.)
from Haivision Manager Management System
from Haivision StreamHub Transceiver

POWER*Power Supply*

Internal 48Wh battery (up to 3 hours)
DC input 19V

PHYSICAL*Dimensions (W x H x D)*

15.8 cm x 6.6 cm x 12.0 cm
(6.22" x 2.36" x 4.72")

Weight

Air3 series: 1.21 Kg / 2.67 lbs (w/ battery)
0.97 Kg / 2.14 lbs (w/o battery)
Air2 series: 1.08 Kg / 2.38 lbs (w/ battery)
0.85 Kg / 1.87 lbs (w/o battery)

Operation Temperature

-5°C to 45°C (23°F to 113°F)

Software Version: 6.0