4K UHD & Multi-HD Encoder and Bonded Cellular Transmitter



The Haivision Pro460 is a quad-HD and 4K UHD mobile transmitter designed for live sports broadcasters and news gathering professionals who need to contribute pristine quality video from anywhere. The Pro460 offers secure and reliable bonded cellular transmission of multi-camera content over 5G networks with latency as low as 80 milliseconds, end-to-end.

With a host of advanced video processing features, the Pro460 can encode live video to HEVC and H.264, including in HDR, for high quality broadcast transmissions and low bandwidth consumption. Supporting up to four simultaneous camera inputs, the Pro460 keeps all the video and audio streams in sync for seamless camera switching, either on-prem or in the cloud.

To further optimize field resources, the Pro460 can be connected to network-based devices such as PTZ cameras and tally lights which can be remotely controlled from a central production facility using a Haivision StreamHub receiver. When connected to an external monitor the Pro460 can display low latency video returns including teleprompters and studio feeds along with a bi-directional audio intercom (IFB) for real-time communication between the field and production.

With its six globally compliant 3G/4G/5G modems and high efficiency patented antennas, the Pro460 can transmit live video over all types of bonded cellular links including public and private 5G networks. Empowering you to contribute live video from anywhere, the Pro460 can also transmit over WiFi, Ka and Ku satellite bands, and the public internet. Our Emmy® awarded SST Technology (Safe Stream Transport) offers dynamic network aggregation, adaptive packet retransmission (ARQ) and forward error correction (FEC) to ensure quality of service.

Available in a compact and portable enclosure, the Pro460 offers standard V-Mount or Gold-Mount plates for attaching rechargeable batteries and for direct mounting on professional cameras or inside a specially designed backpack.

Simple

An intuitive touch-screen user interface enabling camera operators to begin broadcasting live video with just 2 taps.

Versatile

Encode and transmit a single 4K UHD source or four HD sources with up to 10-bit pixel depths, 4:2:2 chroma subsampling, and in HDR.

High Performance

Ultra-low latency H.264 and HEVC video encoding and transmission for pristine quality live broadcast contribution.

Any Network

Leveraging the Emmy® award winning SST and SRT protocols, the Pro460 can reliably transmit live video over any network even with fluctuating conditions.

Main Functions

Premium Live Video up to 4K UHD The Haivision Pro460 offers the highest-quality video performance with HEVC encoding for pristine HD and UHD video transmission over mobile networks including 5G. Built on the two-time award-winning SST cellular bonding technology, the Pro460 can transmit live video with bitrates up to 80Mbps for high-quality broadcast contribution.

Multi-camera Remote Production Bring your remote production and REMI workflows to the next level with four frame-synced HD feeds and simultaneous remote control of IP-based equipment including PTZ cameras. Thanks to high bandwidth and low-latency video transmission supported by its 6 internal modems and antennas, the Pro460 enables multi-camera remote production from anywhere.

IFB & Video Return Ensure two-way audio communication between the producer, camera operator & on-air talent thanks to a seamless and robust intercom system. The Pro460 can also receive a high-quality HD feed from the production studio during a live broadcast or in standby mode. With sub-second latency streaming, Pro460 return feeds can be used for watching on-air programs, teleprompting information or confidence monitoring.

Record & Progressive Forward Record UHD/HD broadcast-grade quality video on an SD card and optimize your file forwarding time with progressive uploads while the live recording is still in progress. The Pro460's advanced recording and file forwarding enables fast and error-free video delivery over any mobile or IP network.

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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
Density
Single UHD/HD
Quadruple HD
Encoding
H.265/HEVC 4:2:0/4:2:2, 8/10-bit
H.264/AVC 4:2:0, 8-bit
Dynamic resolution adjustment
High Dynamic Range (HLG & PQ)
Bitrates
2 Mbps to 80 Mbps for UHD
300 Kbps to 20 Mbps for HD
Constant Bitrate (CBR)
Variable Bitrate (VBR)
Inputs
SDI

AUDIO
Encoding
AAC-LC
Bitrates
32 Kbps to 256 Kbps
Mode
Mono, Stereo
Density
Up to 4 Stereo or 8 Mono per source
Inputs
Embedded over SDI

NETWORK CONNECTIONS
Cellular
6 x 3G/4G/5G world-wide compliant modems
IPv4 and IPv6 compliant
Sub 6GHz bands
SA (Stand Alone) and NSA (Non Stand Alone)
Internal high efficiency antennas
Ethernet
2 x Gigabit Ethernet ports
- LAN, WAN
- portable satellite (Ka & Ku Band)
Wi-Fi
Dual band Wi-Fi modem 802.11a/b/g/n/ac (2.4GHz and 5 GHz)
- Client & Hot Spot modes
- High-efficiency embedded antenna
Transport Protocol
SST over Cellular/Ethernet/WiFi (bonding)
SRT over Ethernet

ADVANCED FEATURES
Video Encoding
Dual encoding for simultaneous Live & Record (single HD mode)
Video downscaling at a fixed resolution
Streaming
Sub-second glass-to-glass latency (down to 80 ms in single encoder mode and down to 500 ms in multi-encoder mode)
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
Sub-second latency
AES encryption
Return feed generation (up to 2 interlaced or 4 progressive video sources)
User Interface and Operations
Video and Audio level preview
Remote dynamic latency adjustment during a live broadcast
Automatic Live Start
Start/Stop live broadcast and recording from camera (Sony, Panasonic or Blackmagic)
Audio
Intercom/IFB with AES encryption
Bluetooth or wired headset
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)

INTERFACES
1 x 12G/3G-SDI input and 3 x 3G-SDI inputs (BNC)
1 x 12G-SDI output (BNC) – for future use
1 x HDMI 1.4 output
1 x GenLock input (BNC)
2 x Gigabit RJ-45 Ethernet
2 x USB 3.0 (type-A), 1 x USB 3.0 (type-C)
6 x micro SIM slots
1 x mini jack for IFB/intercom headset
1 x micro SD card slot

CONTROL & MONITORING
Embedded touch screen
Web UI from any browser
From Haivision StreamHub transceiver
From Haivision Manager

POWER
Power Supply
DC input 18V
External battery with V-mount or Gold-mount plates
Consumption
4 hours with battery (90 Wh)

PHYSICAL
Dimensions (W x H x D)
26,6 cm x 8,4 cm x 12,5 cm (10.47” x 3.30” x 4.92”)
Weight
1.5 Kg / 3.3 lbs
Operating Temperature
-5°C to 45°C (23°F to 113°F)

Software Version: 4.0