

Live HD Video Over Bonded Cellular Networks

The Haivision Pro3 series of transmitters are designed for live sports, entertainment, and news gathering professionals contributing high quality video content from any location. Supporting a wide range of input and output interfaces, the Pro3 Series is a versatile real-time encoder and mobile transmitter delivering pristine quality video at very low latency. With H.265/HEVC live content can be encoded with low bandwidth consumption while the H.264/AVC support ensures compliancy with all types of broadcast production workflows.

Haivision Pro3 transmitters include globally compliant cellular modems with a patented custom antenna array: up to up to six 3G/4G/5G or eight 3G/4G modems can be supported for cellular bonding with the Emmy award winning SST protocol.

When operating in environments with challenging cellular network connectivity, Pro3 transmitters can leverage external antennas and modems including the passive Haivision Quad or active (embedded 3G/4G modem) Haivision Quad CellLink. Built-in Wi-Fi and Dual Gigabit Ethernet can also be used to stream over LAN/WAN, while BGAN, GX and Ka band satellite bands are also supported.

Powerful but energy efficient, the Pro3 series can operate up to 4 hours with an external battery, making it the ideal companion for on-the-go video professionals that need a robust and reliable solution for high quality video broadcasting.



Simple

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



Versatile

The Haivision Pro3 Series offers standard V-Mount or Gold-Mount plates for direct mounting on professional cameras or for easy transport with its specially designed backpack.



High Performance

By implementing a low latency H.265/HEVC hardware encoder in a compact design enclosure, the Pro3 Series enables video professionals to provide seamless and pristine video for news and events coverage.



Any Network

Leveraging the Emmy® award winning SST and SRT protocols, the Pro3 Series can reliably transmit high-quality broadcast contribution video over bonded cellular and IP networks with fluctuating conditions.

	Pro360-5G	Pro380	Pro340
Embedded cellular modems	6	8	4
Cellular networks	5G/4G/3G	4G/3G	4G/3G

Main Functions

Live Video Encoding Broadcast pristine quality live video over bonded IP networks with low latency: 3G/4G/5G, Ethernet, Wi-Fi, BGAN, GX and Ka satellite bands.

IFB & Video Return Ensure two-way audio communication between camera operators, production crews & on-air talent with advanced intercom features. Receive and watch high quality HD feeds from the studio during live sessions or when the device is idled. With sub-second latency delivery, it is especially designed for receiving on-air program, teleprompting information or ensuring confidence monitoring from the field.

Auto-Record and Progressive Forwarding You can simultaneously stream live video while recording to an SD card with different resolutions and bitrates to ensure an optimal and constant video quality. Forward file recordings while recording is in progress, enabling quick and efficient broadcast production and creating a backup in the case of transmission interruption.

Data Bridge Leveraging the transmitter’s aggregated networks connections, a Pro3 unit can be used as a mobile router providing high-speed internet connectivity from anywhere.

VIDEO*Standards*

HD: 1080p60/59.94/50/30/29.97/25
1080i60/59.94/50
720p60/59.94/50

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 for HD
Constant Bitrate (CBR)
Variable Bitrate (VBR)

Inputs

SDI, HDMI

AUDIO*Encoding*

AAC-LC

Bitrates

32 Kbps to 256 Kbps

Mode

Mono, Dual Mono, Stereo 2.0

Density

Up to 4 Channels

Inputs

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

NETWORK CONNECTIONS*Cellular*

6 x 3G/4G/5G, 4 or 8 x 3G/4G world-wide compliant modems with
- Internal high efficiency antennas
- External high efficiency Haivision Quad antenna array
IPv4 and IPv6 compliant

Ethernet

Gigabit Ethernet ports
- LAN, WAN
- portable satellite (BGAN, GX, 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

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, 1 x 3G-SDI output (BNC)
1 x HDMI 1.4 input, 1 x HDMI 1.4 output
2 x RJ-45 Ethernet
1 x USB 3.0 (type-A)
4/6/8 x micro SIM slots
1 x mini XLR for IFB/intercom headset
2 x mini XLR balanced (for analog audio)
1 x 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 (XLR input hot swap)
External battery with V-mount or Gold-mount plates

Consumption

4 hours with battery (90 Wh)

PHYSICAL*Dimensions (W x H x D)*

25,6 cm x 8,4 cm x 12,5 cm
(10.07" x 3.30" x 4.92")

Weight

1.4 Kg / 3.09 lbs

Operating Temperature

-5°C to 45°C (23°F to 113°F)

Software Version: 6.0