PRO3 Series

HEVC

PREMIUM HEVC ENCODER OVER BONDED CELLULAR NETWORKS

SST
Safe Streams Transport

The PRO3 Series is our flagship mobile video encoder & transmitter solution designed for live video producers and news gathering professionals looking for contribution performance from any location around the world.

With its large set of professionnal audio and video interfaces, the PRO3 Series supports the best state-of-the-art H.265/HEVC hardware encoder by offering premium video quality with less data usage, and low end-to-end latency (down to 0.5 sec). The widely adopted H.264/AVC video format is supported as well for compliancy with deployed infrastructures.

It features 8 embedded world-wide compliant cellular 3G/4G-LTE modems with a high efficiency patented custom antenna array. The unit is also ready for 5G networks thanks to an hardware upgrade path. In addition, it can also be remotely connected to AVIWEST's QUAD Antenna external antennas for strengthening the signal transmission in critical environment. Additional links such as built-in Wi-Fi and Dual Gigabit Ethernet for streaming over LAN/WAN, BGAN, GX or Ka band Satellite are also natively supported.

With its high versatility and low consumption (up to 4 hours with external battery), the PRO3 Series is the ideal companion for on-the-go video professionals that need robust and reliable solution, with the ultimate performance and picture quality.

SIMPLE

The PRO3 Series has been designed with ease-of-use in mind, the user-friendly intuitive interface allows broadcasting live videos in 2 touch screen taps.

VERSATILE

Available in a compact ruggedized enclosure, the PRO3 Series offers standard V-Mount or Gold-Mount plate for direct mounting on professional cameras, but also comes with in a smart designed & compact backpack.

HIGH PERFORMANCE

By implementing the best state-of-the art H.265/HEVC hardware encoder in a compact design enclosure, the PRO3 Series enables video professionals to provide seamless high quality news and event coverage.

ANY NETWORKS

Leveraging Emmy® award winning AVIWEST's SST protocol, an intelligent IP bonding stack and powerful contribution network protocols, the PRO3 Series ensures the delivery of live video even in the midst of unpredictable and unmanaged network conditions.

PRODUCTS COMPARISON CHART

	PRO380	PRO340
Internal cellular modems	8	4
Internal High Efficiency Antennas	8	4

AVIWEST
SHAPING TOMORROW'S LIVE VIDEO

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MAIN FUNCTIONS

Broadcast premium quality video live over bonded IP networks : 3G/4G-LTE, Ethernet, Wi-Fi, and satellite networks such as BGAN, GX and Ka Band. Combined with the automatic record feature, you can simultaneously record this live on the pluggable SD card with different resolution and bitrate to ensure an optimal and constant video quality.

RECORD & PROGRESSIVE FORWARD

Record broadcast-grade quality video on the SD card, and optimize your time by forwarding the file progressively whereas the record is still in progress. This forward approach enables fast and error-free video delivery.

DATA HOTSPOT

By leveraging the transmitter's aggregated networks connections, switch the unit to behave as a mobile router in order to benefit a high speed internet connection from anywhere

MAIN SPECIFICATIONS

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 4 channels
INPUTS	Embedded (SDI, HDMI), Analog (L/R)

NETWORK CONNECTIONS

INTEGRATED MODEM	8 x 3G/4G-LTE world-wide compliant modems with - Internal high efficiency antennas - External high efficiency antennas (AVIWEST QUAD Antenna arrays) Ready for 5G thanks to an hardware upgrade path
ETHERNET	Gigabit Ethernet port - LAN, WAN - portable satellite (BGAN, GX, Ka & Ku Band)
WI-FI	Dual band Wi-Fi modem 802.11b/g/n/ac (2.4GHz and 5 GHz) - Client & Hot Spot modes - High-efficiency embedded antenna

ADVANCED FEATURES

Dual encoding for simultaneous Live & Record
Sub second glass-to-glass latency (down to 500ms)
Video and Audio level preview
Network links priorities user-configurable
Data hotspot mode for switching the device as mobile router
Hot Folder mode for enabling smart & automatic files Forward
Intercom / IFB
AES scrambling
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
2 x RJ-45 Ethernet
1 x USB 3.0 (type-A)
8 x micro SIM slots
8 MCX connectors (for AVIWEST QUAD Antenna solution)
1 x mini XLR (for IFB / intercom headset)
2 x mini XLR balanced (for analog audio)
1 x SD card slot

CONTROL & MONITORING

On screen display
Web GUI (through laptop, smartphone, etc.)
From AVIWEST MANAGER Management System
From AVIWEST STREAMHUB Transceiver

POWER

POWER SUPPLY	DC input 18V (XLR input hot swap) External battery with V-mount or Gold-mount plates
CONSUMPTION	4 hours with battery (90Wh)

PHYSICAL

DIMENSIONS (W x H x D)	24.5 cm x 5.5 cm x 12.8 cm (9.44" x 1.96" x 4.72")
WEIGHT	1.4 Kg / 3.09 lbs
OPERATION TEMPERATURE	0°C to 45°C (32°F to 113°F)

SYSTEM OVERVIEW

MANAGER

CAPTURE

PRO Series   QUAD Series

TRANSMIT

3G/4G/5G   Satellite   Wi-Fi   BGAN/GX   LAN/WAN

RECEIVE

STREAMHUB
Cloud/MCR

DISTRIBUTE

1 to N Streamhub   Social Networks   IP Streaming   SDI/HDMI

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