

# PRO1 Series



**SafeStreams**<sup>®</sup>  
technology

## VERSATILE COMPACT 3G/4G VIDEO UPLINK SYSTEM



Designed for live video producers and newsgathering professionals, the AVIWEST's PRO1 Series is ultra-compact, robust and highly-portable, and allows for direct camera-mounting using standard V-Mount, Gold Mount or PAGLOK plates. Its power and versatility give you the required flexibility to be always "news-ready" by combining any of the following network interfaces:

- Up to 8 embedded 3G/4G modems with a high-efficiency custom antenna array giving faster network acquisition and improved resilience
- Up to 8 MCX antenna connectors into which up to 2 AVIWEST's QUAD cellular wideband antenna arrays can be plugged to strengthen the signal transmission in critical environment
- 1 built-in Wi-Fi modem with antenna
- Up to 10 USB ports
- Dual Gigabit Ethernet for streaming over LAN/WAN, BGAN or Ka band Satellite

The PRO1 Series has been designed with ease-of-use in mind, the user-friendly intuitive interface allows broadcasting live videos in 2 simple clicks either from the embedded touchscreen or from a smartphone.

## PRODUCTS COMPARISON CHART

	PRO180-RA	PRO180+	PRO140-RA	PRO110	PRO100
Internal Regional 3G/4G modems	8		4		
Internal Universal 3G/4G Modems		8			
Internal High Efficiency Antennas	8	8	4		
External Antennas connectors	8	8	4		
USB Ports	2	2	2	10	2
Internal Wi-Fi Modem	●	●	●	●	●
Dual Ethernet Ports	●	●	●	●	●
Internal Battery				●	
External Battery plates (Vmount, Gold Mount, PAG)	●	●	●	●	●

# MAIN FUNCTIONS

## LIVE & AUTO-RECORD

Send a live broadcast-quality video over bonded IP networks: Ethernet, Wi-Fi, 3G/4G, and satellite networks, such as BGAN, GX and Ka band. The Auto-record function allows recording a high quality video file while streaming live at lower resolution and bitrate.

## STORE & FORWARD

Record a high quality video file on the SD card. Forward any type of file from a mass-storage device (SD card or USB key) to the STREAMHUB transceiver.

## PROGRESSIVE STORE & FORWARD

Record a high quality video file and forward it progressively to the remote receiver while recording.

# MAIN SPECIFICATIONS

## VIDEO

<b>STANDARDS</b>	HD: 1080p25/30, 1080i50/59.94/60, 720p50/59.94/60 SD: PAL, NTSC
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<b>ENCODING</b>	H.264/AVC Main/High Profile level 4 Dynamic resolution adjustment
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<b>BITRATES</b>	100 Kbps to 15 Mbps Constant Bitrate (CBR) Variable Bitrate (VBR) & Capped VBR
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<b>INPUTS</b>	SDI, HDMI
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## AUDIO

<b>ENCODING</b>	AAC-LC/HE-AAC MPEG-1 Layer II
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<b>BITRATES</b>	32 Kbps to 384 Kbps (MPEG-1 Layer II) 24 Kbps to 256 Kbps (AAC)
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<b>MODE</b>	Dual Mono or Stereo
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<b>DENSITY</b>	Up to 2 channels
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<b>INPUTS</b>	Embedded (SDI, HDMI), Analog (L/R)
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## NETWORK CONNECTIONS

<b>INTEGRATED MODEM</b>	8 x 3G/4G-LTE modems with high gain custom antennas
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<b>ETHERNET</b>	Dual Gigabit Ethernet port - LAN, WAN - portable satellite (BGAN, GX, Ka Band)
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<b>WI-FI</b>	Built-in Wi-Fi modem - Client & Hot Spot modes - High-efficiency antenna
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## ADVANCED FEATURES

AVIWEST SafeStreams technology Sub second glass-to-glass latency (down to 1s) Dual encoding for simultaneous Live & Record	MPEG-2 TS recording Geolocation (GPS, Glonass, Galileo and Beidou) Intercom / IFB IP bridge
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## INTERFACES

1 x HD/SD SDI input (BNC) 1 x HDMI 1.3 2 x RJ-45 Ethernet 2 x USB 2.0 (type-A) ASI-TS out (BNC) 8 MCX connectors (for AVIWEST QUAD antennas)	3 x 3.5 mm audio jack in & out (for IFB / intercom) Line in R / Line in L 1 x SD card slot 1 x expansion port (RS232, RS485) 8 x SIM slots
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## CONTROL & MONITORING

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

<b>POWER SUPPLY</b>	External battery with V-mount or Gold-mount plates DC input 12V-24V (XLR input hot swap)
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<b>CONSUMPTION</b>	up to 30W (PRO180-RA)
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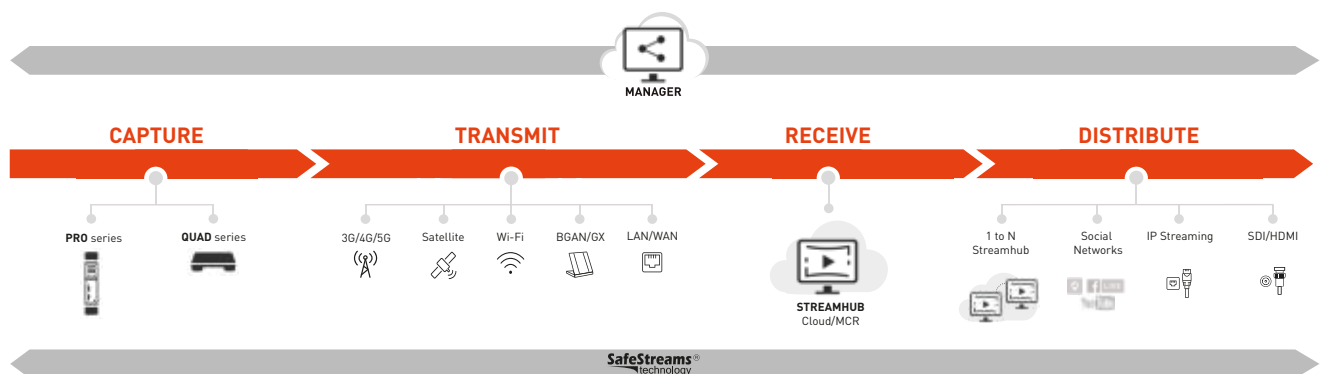
## PHYSICAL

<b>DIMENSIONS (L x W x D)</b>	24.5 cm x 5.5 cm x 12.8 cm (9.44" x 1.96" x 4.72")
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<b>WEIGHT</b>	1,35 Kg / 2.97 lbs
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<b>OPERATION TEMPERATURE</b>	0°C to 45°C (32°F to 113°F)
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# SYSTEM OVERVIEW



AVIWEST continuously improves its products portfolio and reserves the right to modify the specifications without prior notice.