

DMNG PRO 180

DIGITAL MOBILE NEWS GATHERING

THE WORLD'S MOST ADVANCED POCKET-SIZED 3G/4G-LTE VIDEO UPLINK SYSTEM

Designed to be used by news-gathering professionals, the AVIWEST DMNG PRO180 is ultra-compact, robust and highly-portable, and allows for direct camera-mounting using standard V-mount, Gold Mount or PAG-lok. Its power and versatility give you the required flexibility to always be "news-ready" by combining any of the following network interfaces:

- 8 embedded 3G/HSPA+/4G-LTE modems
(with a high-efficiency custom antenna array giving faster network acquisition and improved resilience)
- Built-in WiFi modem
- 2 auxiliary USB ports
- Dual Gigabit Ethernet for BGAN, Thuraya, Ka-Sat or streaming over LAN

The DMNG PRO180 has been designed with ease-of-use in mind, the user-friendly intuitive interface allows any user to broadcast live in 2 simple clicks from either the embedded touchscreen or from your smartphone.

Wherever the news happens, whatever the networks available, the DMNG PRO180 gives you the freedom to shoot with the confidence of delivery.



MAIN FUNCTIONS

LIVE

Send a live broadcast-quality video over any kind of network: bonded 3G or 4G-LTE networks, WiFi, Ethernet or satellite

STORE

Record high quality video files while streaming live at lower resolution and bit rate

FORWARD

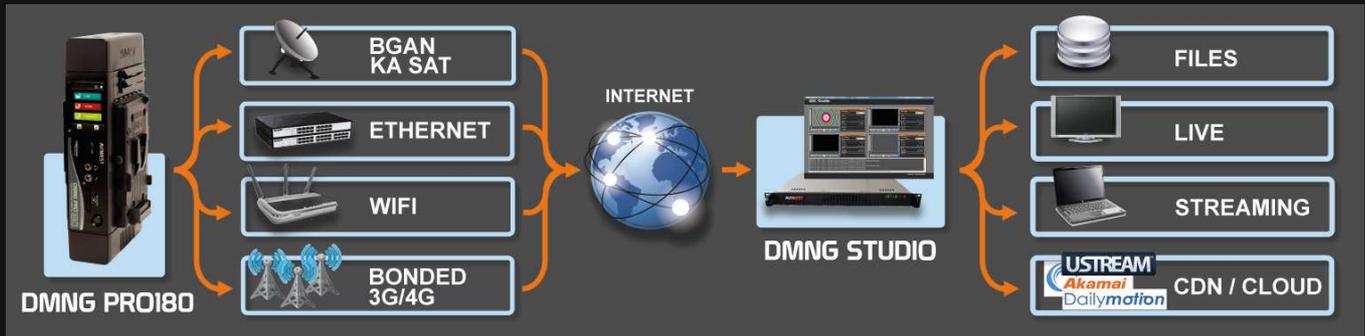
Fast Forward the files from the SD card or a memory stick (video, data,..) to the remote receiver using the available networks

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See all of our products and solutions at
www.aviwest.com

DMNG PRO180 SYSTEM OVERVIEW



USE CASES

LIVE OVER WIRELESS NETWORKS

The DMNG PRO180 has 8 internal 3G or 4G modems with high gain custom antennas, an internal WiFi modem plus 2 USB ports into which additional 2 3G/4G can be plugged to stream a live video over the bonded networks.

LIVE OVER ETHERNET

The DMNG PRO180 can stream a live video over the network to a DMNG Studio or to any kind of H.264 receiver from professional IRDs (Integrated Receiver and Decoder) to VLC player.

LIVE OVER SATELLITE

The DMNG PRO180 is compatible with the main portable Satellite uplink solutions such as Inmarsat BGAN, Thuraya or Eutelsat KaSat too. It can also feed any kind of satellite modulator by using its MPEG-2 TS ASI output.

LIVE TO ANY CDN

The DMNG PRO180 system supports the needed protocols to stream live high definition video directly to the Web or to any CDN (Content Delivery Network) such as Akamai, Livestream or UStream.

DMNG PRO180 MAIN SPECIFICATIONS

Main Functions	Live Store & Forward IFB return channel Tally Light Built-in GPS (Optional)	Video Compression	H.264/AVC Main/High Profile level 4 1080p/1080i/720p/576i/480i @ 50/59.9/25/29.9 fps Bit rates: 100 Kbps to 15 Mbps CBR / VBR / Capped VBR Simultaneous Live & Store at different bit rates
Input Interfaces	HD/SD-SDI embedded audio (BNC) Composite (BNC) Analog Audio L&R (BNC) HDMI (1.3)	Audio Compression	AAC-LC/HE-AAC/HE-AAC 2.0 ; 32 to 128 Kbps MPEG-1 LayerII 32 to 256 Kbps Dual mono / Stereo
Other Interfaces	ASI-TS out (BNC) Gigabit Ethernet (Streaming, BGAN,...) USB 2.0 (Store, USB modems,...) Stereo mini jack (3.5mm) in & out (IFB) RS232, RS485 SD card slot (Store)	Advanced Features	Dual Encoding (Live & Store) HD & SD downscaling Forward Error Correction (FEC) AES Encryption 128-bit or 256-bit (Optional)
Networks	8 x 3G/4G-LTE build-in Modems 8 x 3G/4G-LTE high efficiency custom antennas 2 x Additional external USB Modems Built-in Wifi with high efficiency custom antenna BGAN, Thuraya & Ka Band Satellite Ethernet	Operational Modes	Glass to Glass latency: down to 1 sec Pre set profiles & manual modes
Networking Protocols	Unicast streaming Multicast streaming (IGMP) MPEG Transport Stream over UDP RTMP	Configuration	Rotating Touch screen Remote: Web GUI (any devices) Remote control from receiver (DMNG Studio)
		Power Supply	12-24V input XLR 4 pins - Hot swap V-Mount or Gold Mount or PAG lok plates
		Physical	Dimensions: 245 x 128 x 55 mm Weight (Kg/Lb): 1.16 /2.55 Operating temperature: -10°C to 50°C Average Power Consumption: 30W