

Designed for newsgathering professionals, the AVIWEST DMNG PRO180-RA 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:

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

The DMNG PRO180-RA 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.

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, THURAYA 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 DMNG StreamHub.

PROGRESSIVE STORE & FORWARD

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



MNG PRO ISO-RA

DMNG PRO180-RA SYSTEM OVERVIEW



USE CASES

LIVE OVER WIRELESS NETWORKS

The DMNG PRO180-RA has 8 internal 3G or 4G modems with high gain custom antennas and an internal Wi-Fi modem to stream a live video over bonded wireless networks.

Two AVIWEST QUAD wideband external cellular antenna arrays can be plugged into the 8 MCX antenna connectors on the unit front panel to strengthen the signal transmission in critical environment such as live from crowed areas (street demonstrations, sport stadiums, etc.).

LIVE OVER ETHERNET

The DMNG PRO180-RA can stream a live video over bonded IP networks to a DMNG StreamHub or to any kind of H.264 receiver from professional IRDs (Integrated Receiver and Decoder) to VLC player.

LIVE OVER SATELLITE

The DMNG PRO180-RA is compatible with the major portable satellite uplink solutions such as Inmarsat BGAN, Thuraya or KA band. It can also feed any kind of satellite modulator thanks to its MPEG-2 TS ASI output.

LIVE TO ANY CDN

The DMNG system supports the needed protocols to stream a live high definition video directly to the Web or through any CDN (Content Delivery Network) or video streaming service platform.

DMNG PRO180-RA MAIN SPECIFICATIONS

MAIN **FUNCTIONS**

- Live & Auto-record
- Store & Forward • Progressive Store and Forward

OTHER **FUNCTIONS**

- IFB return channel
- Tally Light
- Geolocation
- IP Bridge

VIDEO INPUTS

- HD/SD-SDI embedded audio (BNC)
- Composite video (BNC)
- Analog Audio L&R (BNC)
- HDMI (1.3)

NETWORK INTERFACES

- 8 x 3G/4G-LTE build-in modems with 8 high efficiency custom antennas
- 8 x MCX connectors for 2 AVIWEST QUAD antenna arrays
- 1 built-in Wi-Fi modem with high efficiency custom antenna (client and access point modes)
- 2 external USB 2.0 ports
- Dual Gigabit Ethernet interfaces (LAN, WAN, BGAN, Thuraya & KA Band Satellite)

OTHER **INTERFACES**

- ASI-TS out (BNC)
- USB 2.0 (Forward, etc.)
- SD card slot
- Stereo mini jack (3.5mm) in & out (IFB)
- Expansion port (RS232, RS485)

NETWORKING PROTOCOLS

- RTP Unicast streaming
- RTP Multicast streaming (IGMP)
- MPEG-2 Transport Stream over UDP/IP • RTMP, RTSP, HLS, TS/IP (DMNG StreamHub)

VIDEO COMPRESSION

- H.264/AVC Main/High Profile level 4
- 1080p/1080i/720p/576i/480i @ 60/59.94/50/30/29.97/25 fps
- Bitrates: 100 Kbps to 20 Mbps
- CBR / Capped VBR / VBR
- Simultaneous Live & Auto-record at different bitrates

AUDIO

COMPRESSION

- AAC-LC/HE-AAC v2; 24 to 256 Kbps
- MPEG-1 Layer II; 32 to 384 Kbps
- Dual mono / Stereo

ADVANCED **FEATURES**

- Dual Encoding (Live & Auto-record) • HD & SD downscaling
- Forward Error Correction (FEC) • AES Encryption (256-bit)

OPERATIONAL MODES

- Dynamic video resolution
- Glass-to-glass latency: down to 1 sec
- Preset profiles & manual modes

MONITORING & CONFIGURATION

- Rotating touchscreen
- On screen video preview
- Remote configuration from Web GUI (any devices)
- Remote control from receiver (DMNG StreamHub)
- Remote control from manager (DMNG Manager)
- Remote control from smartphones (DMNG Remote)

POWER SUPPLY

- 12-24V input XLR 4 pins Hot swap
- Average power consumption: 30W
- V-Mount or Gold Mount or PAGLOK plates

PHYSICAL

- Dimensions: 245 x 128 x 55 mm
- Weight (Kg/Lb): 1.16 / 2.55
- Operating temperatures: -10°C to +50°C

