

# DMNG PRO100

DIGITAL MOBILE NEWS GATHERING

## | LIGHT & PORTABLE VIDEO ENCODER

Designed for newsgathering professionals, the AVIWEST DMNG PRO100 is ultra-compact, robust and highly-portable, and allows for direct camera-mounting using standard V-Mount, Gold Mount or PAGLOK. Its power and versatility give you the required flexibility to be always "news-ready" by combining any of the following network interfaces:

- Dual Gigabit Ethernet for streaming over LAN, BGAN, Thuraya, or KA band
- ASI Transport Stream output
- Built-in Wi-Fi modem with an external antenna
- 2 auxiliary USB ports for external 3G/4G modems

The DMNG PRO100 has been designed with ease-of-use in mind, its intuitive and user-friendly interface allows broadcasting live videos in 2 simple clicks either from the embedded touch-screen or from a smartphone.

Wherever news happens, whatever the networks available, the DMNG PRO100 gives you the freedom to shoot with the confidence of delivery.



### 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 Studio.

#### PROGRESSIVE STORE & FORWARD

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

## DMNG PRO100 SYSTEM OVERVIEW



## USE CASES

### LIVE OVER ETHERNET

The DMNG PRO100 can stream a live video over IP networks 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 PRO100 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.

### LIVE OVER WIRELESS NETWORKS

The DMNG PRO100 has an internal Wi-Fi modem and 2 USB ports to connect 2 external 3G/4G USB modems to stream a live video over bonded wireless networks.

## DMNG PRO100 MAIN SPECIFICATIONS

<b>MAIN FUNCTIONS</b>	<ul style="list-style-type: none"> <li>• Live &amp; Auto-record</li> <li>• Store &amp; Forward</li> <li>• Progressive Store &amp; Forward</li> </ul>	<b>VIDEO COMPRESSION</b>	<ul style="list-style-type: none"> <li>• H.264/AVC Main/High Profile level 4</li> <li>• 1080i/720p/576i/480i @ 60/50/59.94/25/29.97 fps</li> <li>• Bitrates: 100 Kbps to 15 Mbps</li> <li>• CBR / Capped VBR / VBR</li> <li>• Simultaneous Live &amp; Store at different bitrates</li> </ul>
<b>OTHER FUNCTIONS</b>	<ul style="list-style-type: none"> <li>• IFB return channel</li> <li>• Tally Light</li> <li>• Geolocation</li> </ul>	<b>AUDIO COMPRESSION</b>	<ul style="list-style-type: none"> <li>• AAC-LC/HE-AAC v2; 32 to 256 Kbps</li> <li>• MPEG-1 Layer II; 32 to 384 Kbps</li> <li>• Dual mono / Stereo</li> </ul>
<b>VIDEO INPUTS</b>	<ul style="list-style-type: none"> <li>• HD/SD-SDI embedded audio (BNC)</li> <li>• Composite video (BNC)</li> <li>• Analog Audio L&amp;R (BNC)</li> <li>• HDMI (1.3)</li> </ul>	<b>ADVANCED FEATURES</b>	<ul style="list-style-type: none"> <li>• Dual Encoding (Live &amp; Auto-record)</li> <li>• HD &amp; SD downscaling</li> <li>• Forward Error Correction (FEC)</li> <li>• AES Encryption (128-bit or 256-bit)</li> </ul>
<b>NETWORK INTERFACES</b>	<ul style="list-style-type: none"> <li>• ASI-TS out (BNC)</li> <li>• Dual Gigabit Ethernet interfaces (LAN, WAN, BGAN, Thuraya &amp; KA Band Satellite)</li> <li>• 2 USB 2.0 ports</li> <li>• 1 built-in Wi-Fi modem with an external antenna (client and access point modes)</li> </ul>	<b>OPERATIONAL MODES</b>	<ul style="list-style-type: none"> <li>• Automatic and dynamic video resolution</li> <li>• Glass-to-glass latency: down to 1 sec</li> <li>• Preset profiles &amp; manual modes</li> </ul>
<b>OTHER INTERFACES</b>	<ul style="list-style-type: none"> <li>• 2 USB 2.0 ports (Store, USB modems,...)</li> <li>• SD card slot</li> <li>• Stereo mini jack (3.5mm) in &amp; out (IFB)</li> <li>• Expansion port (RS232, RS485)</li> </ul>	<b>MONITORING &amp; CONFIGURATION</b>	<ul style="list-style-type: none"> <li>• Rotating touchscreen</li> <li>• On screen video preview</li> <li>• Remote configuration from Web GUI (any devices)</li> <li>• Remote control from receiver (DMNG Studio)</li> <li>• Remote control from manager (DMNG Manager)</li> </ul>
<b>NETWORKING PROTOCOLS</b>	<ul style="list-style-type: none"> <li>• RTP Unicast streaming</li> <li>• RTP Multicast streaming (IGMP)</li> <li>• MPEG-2 Transport Stream over UDP/IP</li> <li>• RTMP, RTSP, HLS (DMNG Studio)</li> </ul>	<b>POWER SUPPLY</b>	<ul style="list-style-type: none"> <li>• 12-24V input XLR 4 pins - Hot swap</li> <li>• V-Mount or Gold Mount or PAGLOK plates</li> <li>• Average power consumption: 12W</li> </ul>
		<b>PHYSICAL</b>	<ul style="list-style-type: none"> <li>• Dimensions: 180 x 128 x 55 mm</li> <li>• Weight (Kg/Lb): 0.92 / 2.02</li> <li>• Operating temperatures: -10°C to +50°C</li> </ul>