



# DMB-16R

H.264/SVC Next Generation Mobile DVR 16 video and audio channels with 1 TB HDD and Internal GPS

Unlike any other system the Aventura Mobile DVR can operate under the most extreme operating environments. From arctic to desert temperatures the DVR runs flawlessly.

Aventura's Mobile DVR are designed for harsh environments, it includes a built-in Intelligent power switcher that can operate from 6V-36 VDC-IN. The On / Off delay switch allows automatic system shut down.

### Features

- H.264/SVC Video Compression (MPEG4 Part 10).
- Next generation codec offering compression ratio's far higher than equivalent MJPEG/MPEG1/2/4 and wavelet systems
- Full control over encoding bitrate (user selectable from 32 Kbps~2 Mbps) and encoding type (variable or fixed)
- Real-Time display/record in all channels
- Supports following resolution: NTSC/PAL 4CIF, DCIF, 2CIF, QCIF
- High-Speed Embedded System
- Hot Swappable Storage (Up to 2 TB)
- Synchronized Monitoring, Recording, Playing
- Support 2-ch synchronized playback
- Supports playback, rewind, fast forward, pause, frame by frame, etc.
- GPS built-in
- Accelerometer (Optional)
- Remote Central Wireless Management Software (Optional)
- 802.11g wireless technology support (Optional)
- Alarm Input & Output Support. (Optional)
- Fast Search and Playback
- High Speed 100M Ethernet
- Supports remote high-speed transmission of real-time pictures and file backup
- Over voltage protection
- Anti-vibration and shock resistant
- Friendly Graphical User Interface



- **Real-time display & record**
- **16 channels of audio & video**
- **Hot-swappable storage (Up to 2 TB)**
- **4CIF (30 FPS), DCIF (30 FPS), CIF (30 FPS)**
- **GPS location and speed (built-in)**
- **802.11g wireless technology (optional)**
- **Live remote viewing**

### AVAILABLE MODELS

Part number	Description
DMB-16R	H.264 Mobile DVR, 16 video and 16 audio channels with 1 TB HDD and Internal GPS

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### Options:

- GPRS
- Accelerometer
- Remote Management Server
- AdHoc Networking (Vehicle side)
- Base Station Side Antenna/Transmitter (AdHoc Networking)
- Wireless LAN (802.11)
- Vehicle Side Antenna (802.11)
- Base Station Side Antenna/Transmitter (802.11)

**SPECIFICATIONS****HARDWARE INTERFACE**

Operating System	RTOS (Real Time Operating System)
Video System	NTSC/PAL
Compression	H.264 SVC
Streaming Compression	H.264 SVC Dual Streaming
Display Resolution	Real-time: 704 x 480 (NTSC), 720 x 576 (PAL)
Record Resolution	4CIF/DCIF/CIF 704 x 480/528 x 320/352 x 240 (NTSC) / 704 x 576/528 x 384/352 x 288 (PAL)
Record Frame Rate	Global: 480 FPS Per Channel max. (NTSC/PAL): 4CIF (704x480) 30 FPS / 4 CIF (704x576) 25 FPS DCIF (528x320) 30 FPS / DCIF (528x384) 25 FPS CIF (352x240) 30 FPS / CIF (352x288) 25 FPS
Video Bitrate	32 Kbps~2 Mbps. User defined/variable
Video Input Channels	16 MIL-grade circular plugs (1.0Vp-p 75 Ω)
Video Output	2 MIL-grade circular plugs (1.0Vp-p 75 Ω)
Monitor Output Support	VGA
Audio Input	16 MIL-grade circular plugs (1.0Vp-p 75 Ω)
Audio Output	2 MIL-grade circular plugs (1.0Vp-p 75 Ω)
Audio Compression	Ogg Vorbis
Audio Bitrate	16 Kbps
Audio Voice Input	1 MIL-grade circular plug (1.0Vp-p 75 Ω)
Sensor Inputs	16
Alarm Outputs	4
Hard Drive Interface	1 TB SATA Hard Drive included
Max Hard Drive Support	Up to 2 x 1 TB (2 TB) 2.5" SATA Hard Drive Disk
USB	1 USB 2.0 port (USB Flash Drive, USB Hard Drive, DVD-RW or CD-RW)
eSATA Interface	1 eSATA interface for high speed backup
Communication Interface	1 RJ-45 (10/100 Ethernet), 1 RS232, 1 RS485
Wireless Network Interface (optional)	2 x SMA wireless network antennas
GPS Interface	Built-in GPS module, SMA antennas
Network Protocol	DHCP, PPPoE, Static IP, TCP/IP
Remote Control	Included
Control Interface	Remote control or remote client software
DVR Interface	Pentaplex (live display, record/playback, network simultaneously)
Motion Detection Record	Yes (multi area setup for each individual camera)
Recording Options	VBR, CBR, adjustable frame rate, manual, scheduled, motion detection, and alarm

**SOFTWARE**

Web Client Software	Included
Remote Client Software	Included
Language	English

**ELECTRICAL & ENVIRONMENTAL**

Vehicle Power Input	6~36 VDC
Power Output	12 VDC, 5 VDC output, built-in resettable fuse
Power Consumption (without HDD)	26 Watts
Power-Off Delay	Shut down delay after ignition is off (5 mins~6 hours)
Scheduled On/Off	Daily scheduled power on/off (00:00~24:00)
Working Temperature	5°F to 131°F (-15°C to 55 °C)
Working Humidity	10~90% RH

**PHYSICAL**

Weight	<11 lbs without HDD or DVR-RW
Dimension (W x H x D)	11.4" x 3.5" x 8.8" (290 x 225 x 90 mm)
Regulatory Type	CE, FCC, UL

**Warranty (Effective Jan 1, 2009)**

3 Years