DMB-X
H.264/SVC Next Generation PC-Based, Rugged, Vehicle-Mount Mobile DVR

Features:
- High Definition Quality H.264/SVC Video
- Synchronized Broadcast Quality Audio
- Supports Analog/IP/Megapixel Cameras
- Onboard Video Analytics
- IP Camera Support (Up to 16)
- Simultaneous Advertisement Broadcast
- GPRS/3G/Mesh/WiFi/802.11 Network Support
- Tamper-Proof Enclosure
- IP68/Nema 6P Standard
- 10g Operational Shock
- Ruggedized Hot Swappable Storage
- Up to 2 TB Storage

The DMB-X Series is a range of specialized Vehicle Video Recorders for demanding mobile applications. Specifically designed, tested, certified and guaranteed for 24/7 use in Public Transport and Emergency Service Vehicles.

Conventional hard disks are typically the "weakest link" preventing COTS-based computer systems from reliably operating in extended altitude, humidity, temperature or vibration/shock environments. Solid-state disk alternatives are prohibitively expensive and do not offer the same storage density as hard disks. Rugged storage solutions from Aventura bridge the gap between conventional hard disks and expensive solid-state solutions, delivering much of performance of solid-state but using more cost effective conventional 3.5" disks.

High Definition Quality Images
The exceptional image quality of our DVR range is made possible through Aventura's total control of the image compression hardware and software. Unwanted artifacts and missed frames are avoided through a combination of optimized video algorithms and real-time micro control of image processors.

Resolution and bit rates are user configurable per channel, with a range from QCIF @ 16kbps to 4CIF @ 2mbps. At this upper setting, a Mobile DVR copy of a commercial DVD is indistinguishable from the original.

Limitless Image Storage Capacity
All Mobile DVR models have externally located, compact, ruggedized storage modules for mounting in the most conveniently accessible location within the vehicle. Modules can be linked together to provide storage of almost limitless size and flexibility. We can use any combination of 2.5", 3.5" and NAS (Network Attached Storage) devices on the same system.

Fast Image Retrieval
There is a choice of three fast and convenient means of retrieving images:
- Removable hard drive storage accessible via any Windows 2000/XP/Vista machine
- GPRS/3G/Mesh/WiFi/802.11 Network Support (using optional equipment)
- Transfer to a portable storage device (USB CD/DVD writer or flash disk)

Easy Image Viewing and Analysis
Set-up, administration, review of recordings and export of recorded material is by means of Client software.

Image Export
Images can be burnt to CD/DVD either using the Client software supplied or directly from the Mobile DVR. The CD/DVD burning engine is built-in, ensuring your evidence is correctly burnt every time. Also, the player software is applied to the burnt disc at the same time as the archive footage to aid review by untrained users.

Reliability
Each release of Aventura’s DMB-X series DVR undergoes a rigorous testing program exposing the model to extremes of temperature, shock, vibration, and severe electro-magnetic fields.

Image Transmission
Live and recorded video are available via our built-in web server. This allows remote monitoring and system administration from anywhere in the world (connection dependent). Our highly efficient video compression codec allows for useful images to be received over mobile/cell connections as low as 16kbps.

Certified
The Mobile DVR exceeds all relevant US and EU government standards.

Video Inputs
DMB-04X 4-channel: 4 video channels PAL/NTSC/SECAM/IP Network plus 4 analog audio
DMB-06X 8-channel: 8 video channels PAL/NTSC/SECAM/IP Network plus 8 analog audio
DMB-12X 12-channel: 12 video channels PAL/NTSC/SECAM/IP Network plus 12 analog audio

Available Models
<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMB-04X</td>
<td>4 video and 4 audio channels Mobile DVR, Rugged 120 GB Sata HD</td>
</tr>
<tr>
<td>DMB-06X</td>
<td>8 video and 8 audio channels Mobile DVR, Rugged 250 GB Sata HD</td>
</tr>
<tr>
<td>DMB-12X</td>
<td>12 video and 12 audio channels Mobile DVR, Rugged 250 GB Sata HD</td>
</tr>
<tr>
<td>DMB-16X</td>
<td>16 video and 16 audio channels Mobile DVR, Rugged 250 GB Sata HD</td>
</tr>
</tbody>
</table>

© Aventura Technologies
DMB-16X 16-channel: 16 video channels PAL/NTSC/SECAM/IP Network plus 2 analog audio (16 optional)

Encoding
Each channel is separately configurable using H.264 (MPEG 4 part 10) settable between 16Kbps and 2Mbps. Configurable quality from QCIF to 4CIF at settable frame rates up to 25/30fps (PAL/NTSC) simultaneously on all channels.

Image Storage
Direct to External storage. This can be anything from 2.5", 3.5", NAS devices or solid state for ultimate flexibility

Analogue / Alarm inputs
5 Alarm inputs which can be N/O or N/C or through 12v/24v vehicle electronics

Recording Options
Recording mode can be continuous, by timer, alarm, audio, or by motion detection

Internal Clock
RTC is onboard with daylight saving handled by the O/S (RTC accuracy +/- 1min/year)

Signal Interfaces
BNC video, BNC audio, 1x PS/2 mouse, 1x PS/2 keyboard, 1x 10/100 RJ45 Ethernet, 2x USB2.0, 1x RS232 for modem (GPRS/GSM/dial-up), 1x VGA, 1x S-Video, 1x RCA composite and 1x 1394 Firewire.

Mechanical
Overall 205 x 235 x 88 mm excluding connectors, weight excluding hard drive 1.2Kg. Can be mounted on any plane.

Power
11 - 24v DC input. Power on/off state via ignition with configurable shutdown timer.

Compliance
Designed to Safety 72/23/EEC; EMC 89/336/EEC; Commercial vehicles 95/54/EC & 2004/104/EC; UK Home Office

Vehicle Rugged Hard Disk Features:

- 12 vdc to 28 vdc operation
- Powered directly from the vehicle
- USB 2.0 480mbps interface
- Up to 2 TB (with option to daisy chain additional disks)
- Temperature controlled environment -22°F to 140°F (-30°C to +60°C)
- Operational Shock 10g/11ms
- Operational Vibration 3g RMS 50-500hz
- Black anodized aluminium case to military specification

Warranty (Effective Jan 1, 2009)
1 Year