

Aventura Technologies
The World Leader in Digital Video
Surveillance Technology

1-877-707-9600
Experience The
Power of **H.264**

[400 Oser Avenue, Hauppauge, NY 11788]

Non-PC-Based Professional DVR



- Real-Time Display & Record
- Up to 16 Ch. of Audio & Video
- Supports up to 4 Hard Drives
- Supports: PTZ, PSTN, TCP/IP
- Resolutions: 4CIF, DCIF, 2CIF, CIF, QCIF

Available Models

Part Number	Description
DS-8002HFI	2 video and 2 audio channel 4CIF with 120GB and CD Burner
DS-8004HFI	4 video and 4 audio channel 4CIF, with 200GB and CD Burner
DS-8008HFI	8 video and 8 audio channel 4CIF, with 250GB and CD Burner

This Non-PC Digital Video Recorders is the latest from the Aventura laboratories, utilizing the most advanced technology in video/audio encoding/decoding, hard disk record and TCP/IP. It has both the features of a digital video/audio recorder (DVR) and digital video/audio server (DVS) . It can work as a stand-alone or be used to build a powerful surveillance network, widely used in banks, telecommunication, transportation, factories, warehouse, irrigation, etc.

Physical description

- Max 8 video in (PAL, NTSC)
- Max 8 audio in (linear in)
- 1 video out (PAL, NTSC)
- 1 audio out
- 1 line in (for voice talk)
- 1 10/100M Ethernet
- 4 IDE, support max 4 hard disks of max 400GB each
- 8 or 16 alarm in
- 4 alarm out
- 1 RS-485 for keyboard, 1 RS-485 for PTZ control
- 1 RS-232
- 1 USB
- 1 VGA
- Built-in CDRW
- 19-inch case (450mm*450mm*95mm)

Functions :

- Aventura's Embedded Digital Video Recorder adopts a high performance embedded real-time multi-tasking operating system (RTOS) and an embedded CPU, to perfectly implement all the functions needed to build a surveillance system. Running all the software of a FLASH makes the system more steady and reliable.

Compression function:

- Support maximum 8 channels video in. Each channel can be compressed independently in 25F/S (PAL) or 30F/S (NTSC), using H.264 algorithm.
- Both variable bit-rate and variable frame rate are supported.
- Support max 16 channels audio in. Each channel can be compressed independently, using an OggVorbis audio standard. The output bit-rate is 16 kbps.
- The output video and audio streams are integrated to generate the synchronized H.264 stream. Video and audio coincide with each other from beginning to end when the stream is played back.
- Supports following resolution:
 - NTSC: 4CIF (704x480), DCIF(528x320), 2CIF(704x240),CIF(352x240), QCIF(176x120)
 - PAL: 4CIF (704x576), DCIF(528x384), 2CIF(704x288),CIF(352x288), QCIF(176x144)
- Supports multi-zone motion detection.
- Supports position configurable OSD & LOGO.
- Supports watermark.

Network Functions:

- Supports TCP/IP (ARP, RARP, IP, ODP, TCP, PPP, PPPoE, DHCP, SNMP, etc).
- Supports broad-band transmission (ADSL, etc).
- Supports narrow-band transmission (PSTN, etc).
- Streams of one or more channels, Net DVR's running state and alarm state can be accessed through network.
- Net DVR's parameters can be set through the network.
- Supports remote control of PTZ.
- Streams can be recorded in a remote host PC .
- Files in Net DVR can be downloaded to or remotely played in a remote host PC.
- Supports Net DVR remote upgrading.
- PC hosts can gain direct control of Net DVR's RS-232 or RS-485 port.
- Supports voice talk between host in surveillance center (back end) and Net DVR (front end)
- Supports embedded web server. Browser can be used to access Net DVR.

Storage Functions:

- Supports 6 kinds of record trigger mode: Schedule mode, alarm mode, motion detection, motion detection & alarm, motion detection | alarm.
- Won't lose frames when switch record files
- Can install 4 HDD and each HDD supports 400GB
- Supports hard disk sleep mode.
- Supports FAT32 file system.
- Supports HDD smart
- Supports cyclic and non-cyclic record mode.
- Supports network access storage (NAS).
- Supports USB flash disk, USB hard disk, USB CDRW for backup.

Preview & Playback Functions:

- Supports Monitor;
- Supports VGA;
- Switch quickly in preview mode;
- Supports partial zone sheltering;
- Supports local file Play and time play, support play fast, play slow, pause, play frame one by one, etc;
- Supports OSD, LOGO

PTZ control:

- Supports Pan-Tilt-Zoom control and Preset through front, keyboard and network;
- Supports most popular PTZ protocol;
- Ability to customize new PTZ protocol;

Alarm Functions

- Supports Motion detect alarm, switch alarm, signal lost alarm, exception alarm, etc;
- Supports setup of alarm related with PTZ preset;

Others:

- Support RS-485 interface keyboard;
- User-friendly menu interface;
- Multi-level user priority;
- SDK and DEMO software source code can be provided to reduce application development time.

Specifications:

Video Compression	H.264
Preview Resolution	NTSC: 704x480 PAL: 704x576
Compress Resolution	4CIF, DCIF, 2CIF, CIF, QCIF
Video Input	2–8 Channels BNC (1.0V _{p-p} 75 Ω)
Video Output	1 Channel BNC (1.0V _{p-p} , 75 Ω)
Frame rate	NTSC : 1/16–30 F/S PAL : 1/16–25 F/S
Stream Type	Mixed stream or Video Stream
Bit rate	16Kbps / 2Mbps (Self definition)
Audio Input	2–8 Channels, BNC (Linear Electrical Level – Resistance:6000)
Audio Output	1 Channel, BNC (Linear Electrical Level – Resistance:6000)
Audio Compression	OggVorbis
Audio bitrate	16Kbps
Voice Audio input	1 Channel, BNC (Linear Electrical Level – Resistance:6000)
Communication Interface	1 RJ45 10M/100M UTP Network – 1 RJ45 for RS232, 1 RJ45 for RS485
Keyboard Interface	1 RJ45
Serial Link Interface	1 RJ45
HDD IDE Interface	4 IDE, support 4 HDD
USB Interface	1, support USB1.1; Support U flash disk, USB HDD, USB DVDR/W
Backup	Built-in CDR/W
VGA Interface	1, Support 800 × 600/60Hz – 800 × 600/75Hz – 1024 × 768/60Hz
Switch Alarm Input	8/16 Ports
Switch Alarm Output	4 Ports
Power Supply	90--135VAC or 180--265VAC, 47--63 Hz
Power Consumption	DS–8002HC 37W DS–8004HC 41W DS–8008HC 44W(Without HDD)
Temperature	–10°C -- 50°C
Humidity	10% -- 90%
Dimension	19" (450mm*450mm*95mm)
Weight	7.6Kg (DS–8008HC without HDD)