



DHS Series

H.264/SVC Next Generation PC Based Standard DVR

The DHS series PC-based digital video recorder is the latest from the Aventura laboratories, utilizing the most advanced technology in video/audio encoding/decoding, hard disk record and TCP/IP.

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Physical description

- Max 16 video in (NTSC/PAL)
- Max 16 audio in (linear in)
- 1 line in (for voice talk)
- 1 10/100/1000M ethernet
- 3 HDD max 1.5 TB each (4.5 TB combined)
- 1 RS-485 for keyboard, 1 RS-485 for PTZ control (optional)
- 1 RS-232
- 4 USB
- 1 VGA/DVI
- 12" case

Function :

Aventura's DHS series PC-based digital video recorder adopts a high performance Windows XP Professional real-time multi-tasking operating system with hyperthreading CPU, to perfectly implement all the functions needed to build a surveillance system.

Compression function:

- Support maximum 16 channels video in. Each channel can be compressed independently in 30 FPS (NTSC) or 25 FPS (PAL) 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: DCIF(528x320), CIF(352x240)
PAL: DCIF(528x384), CIF(352x288)
- Supports multi-zone motion detection.
- Supports position configurable OSD & Logo. Supports watermarking.

Network Functions:

- Supports TCP/IP (ARP, RARP, IP, ODP, TCP, PPP, PPPoE, DHCP, SNMP, etc).
- Supports broadband transmission (ADSL, etc).
- Supports narrow-band transmission (PSTN, etc).
- Remote viewing of one or more channels.
- 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 DVR can be downloaded to or remotely played in a remote host PC.
- Supports DVR remote upgrading.
- PC hosts can gain direct control of 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, motion detection.
- Continuous recording during playback
- Can install 3 HDDs and standard system and can be configured with external HDD boxes and RAID array
- Supports cyclic and non-cyclic record mode.
- Supports network access storage (NAS).
- Supports USB flash disk, USB hard disk, USB DVDRW/CDRW for backup.

Preview & Playback Functions:

- Supports VGA/DVI Monitor
- Supports PDA live viewing (Windows Mobile 5/6, iPhone, BlackBerry)
- Switches quickly to preview mode
- Supports partial zone masking
- Supports local file playback and time/date playback, supports fast forward, rewind, slow motion, pause, play frame by frame, etc.
- Supports OSD, Logo

PTZ control:

- Supports Pan-Tilt-Zoom control and preset through software/firmware
- Supports most popular PTZ protocols



- Real-Time display & record
- Up to 16 channels of audio & video
- Supports up to 3 hard drives
- Resolution: DCIF, CIF

MODELS

| Part Number | Description |
|-------------|-----------------------------------------------------------------------|
| DHS-04 | H.264 DVR, 4 video and 4 audio channels with 250 GB HDD, DVD Burner |
| DHS-08 | H.264 DVR, 8 video and 8 audio channels with 500 GB HDD, DVD Burner |
| DHS-12 | H.264 DVR, 12 video and 12 audio channels with 750 GB HDD, DVD Burner |
| DHS-16 | H.264 DVR, 16 video and 16 audio channels with 1 TB HDD, DVD Burner |

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- Ability to customize new PTZ protocols

Others:

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

SPECIFICATIONS

| System | |
|-------------------------|----------------------------------------------------------------------------------------------|
| Motherboard & Chipset | Intel 865 Chipset |
| CPU | Core 2 Duo, 2.6 GHz E4700 Socket 775 (2 MB Cache) |
| RAM | 1 GB DDR2 667 |
| Storage | Up to 4.5 TB SATA |
| Video Display | ATI Radeon HD3650 (512 MB PCI Express 2.0 x16) |
| OS | Windows XP Professional |
| Video Compression | H.264 Advanced Video Compression (SVC) |
| Audio Compression | OggVorbis 16 Kbps |
| Chassis Type | Cube |
| Storage Media | DVD-RW (20x) |
| Mouse | Optical USB |
| Keyboard | 106-Key USB |
| LAN | 10/100/1000 Base T Ethernet |
| Backup Storage | USB (not included) |
| Encoder/Decoder | PCI Hardware Encoder |
| Video Inputs | 1~16 BNC (1.0Vp-p 75 Ω) Resistance 75Ω (NTSC/PAL) |
| Audio Inputs | 1~16 BNC (1.0Vp-p 75 Ω) Linear Level 600Ω (NTSC/PAL) |
| Hardware | |
| Size | 8.7" x 8.3" x 12.8" |
| Weight | 25 lb |
| Power Supply | Max. 350 W 90~264 V(47 Hz~65 Hz) |
| Power | 110/220 VAC, 60/50 Hz (non condensing) at 40°C |
| Operating Temperature | 25°F ~ 110°F |
| Power Management | Programmable Auto-Reboot in Case of Power Loss |
| UPS | External UPS (Optional) |
| Monitoring | |
| Interface | Web Graphical User Interface |
| Display Rate | Real-Time All Channels Simultaneous (30 FPS/NTSC 25 FPS/PAL) |
| Display Resolution | 4CIF (704x480) |
| Disconnection Detection | Watchdog Function |
| POS Terminal Display | Video Text Inserter (Optional) |
| PTZ Control | PTZ GUI Interface (RS-232/422 Interface) |
| Recording | |
| Time Stamp | Image Embedded with Date/Time Information |
| Recording Resolution | NTSC: DCIF(528x320), CIF(352x240) PAL: DCIF (528x384), CIF(352x288) |
| Record Rate | (DCIF 30 fps NTSC/25 fps PAL) (CIF 30 fps NTSC/25 fps PAL) (All Channels Simultaneous) |
| Mode | Watch, Normal, Motion Detection, Sensor, Pre-Post Alarm/Scheduled Multi-Channel |
| Playback | |
| Search Mode | By Channel, Date and Time, Motion Detection, Sensor Events |
| Playback Mode | Play, Pause, Frame by Frame, 1 - 2048 Times Fast Forward/Rewind, Scrub Bar |
| Image Adjustment | Brightness, Contrast, Saturation, Hue, Zooming |
| Alarm | |
| Alarm Output | Email with Screen Shot |
| Authentication | |
| Encrypted Watermark | AES/MD5 (Court Admissible) |
| Remote | |
| Monitoring | Full Remote Control PSTN, ISDN, ADSL, LAN and TCP/IP |
| Standard | |
| Safety Standards | EN60950, UL1459 |
| Approvals | |
| EMC Standards | EN55022 Class-B, EN50082-1 |
| FCC | Part 15 Class-B, VCCI Class-2 |
| WARRANTY | |
| 1 Year | |