



DHE-4CIF

H.264/SVC Next Generation Embedded Professional DVR

Aventura's standalone DVRs utilize the most advanced H.264 technology in video/audio encoding/decoding, recording and TCP/IP transmission. It has both the features of a Digital Video/Audio Recorder (DVR) and Digital Video/Audio Server (DVS). It can work as a standalone or be used to build a powerful surveillance network. All Aventura standalone DVRs feature TCP/IP networking for remote access, expandable recording hard drive capability, PTZ control, alarm and sensor input and much more.

Physical description

- Max. 16 video in (NTSC/PAL)
- Max. 16 audio in (linear in)
- 1 video out (NTSC/PAL)
- 1 audio out
- 1 line in (for voice talk)
- 1 10/100M ethernet
- Up to 4x 1000GB (4TB) SATA Hard Drive Disks
- Max. 16 sensors inputs
- Max. 4 alarms outputs
- 1 RS-485 for keyboard, 1 RS-485 for PTZ control
- 1 RS-232
- 1 USB
- 1 VGA
- Built-in DVD writer, USB support
- 19" 2U case with rackmount option

Compression function:

- Support maximum 16 channels video in. Each channel can be compressed independently at 30 FPS (NTSC) or 25 FPS (PAL) , using H.264 algorithm.
- Support max 16 channels audio in. Each channel can be compressed independently, using an OggVorbis audio standard. The output bit-rate is 16 kbps.
- Both variable bitrate and variable frame rate are supported.
- Integrated video and audio streams for a synchronized H.264 stream. Video and audio coincide with each other from the beginning to end during played back.
- Supports following resolution:
NTSC: 4CIF (704x480) 30 FPS, DCIF(528x320) 30 FPS, CIF (352x240) 30 FPS
PAL: 4CIF (704x576) 25 FPS, DCIF(528x384) 25 FPS, CIF (352x288) 25 FPS
- 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 broad-band transmission (ADSL, etc).
- Supports narrow-band transmission (PSTN, etc).
- Streaming of one or more channels, Net DVR's running state and alarm state can be accessed through the 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 the 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. Internet Explorer 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 switching to playback
- Can install 4 HDD and each HDD supports 750GBytes
- 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.

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- Real-time display & record
- Up to 16 channels of audio & video
- Supports up to 4 hard drives
- 4CIF(30 FPS), DCIF(30 FPS), CIF(30 FPS)
- Dual stream
- Supports: PTZ, remote access

AVAILABLE MODELS

Part number	Description
DHE-04-4CIF	H.264/SVC Embedded DVR with 4 video and 4 audio channels 4CIF with 750 GB HDD, DVD Burner
DHE-08-4CIF	H.264/SVC Embedded DVR with 8 video and 8 audio channels 4CIF with 1 TB HDD, DVD Burner
DHE-16-4CIF	H.264/SVC Embedded DVR with 16 video and 16 audio channels 4CIF with 1.5 TB HDD, DVD Burner

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Preview & Playback Functions:

- Supports BNC Monitors.
- Supports VGA Monitors.
- Switch quickly in preview mode.
- Supports partial zone sheltering.
- Supports local file playback and time playback, support fast forward, slow motion, pause, play frame by frame, etc.
- Supports OSD, LOG.

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 detection alarm, switch alarm, signal lost alarm, exception alarm, etc.
- Supports setup of alarm links with PTZ presets.

Others:

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

SPECIFICATIONS

Model	DHE-04-4CIF	DHE-08-4CIF	DHE-16-4CIF
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)		
Display Frame Rate	120 FPS (NTSC), 100 FPS (PAL)	240 FPS (NTSC), 200 FPS (PAL)	480 FPS (NTSC), 400 FPS (PAL)
Record Frame Rate	Global: 120 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	Global: 240 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	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	4 BNC (1.0Vp-p 75 Ω) channels	8 BNC (1.0Vp-p 75 Ω) channels	16 BNC (1.0Vp-p 75 Ω) channels
Video Loop Output	N/A		
Video Output	1 BNC channel (1.0Vp-p 75 Ω)		
Monitor Output Support	VGA		
Matrix Output	N/A		
Sensor Inputs	4	8	16
Alarm Outputs	2	4	4
Audio Input	4 BNC (2.0Vp-p, 1KΩ) channels	8 BNC (2.0Vp-p, 1KΩ) Channels	16 BNC (2.0Vp-p, 1KΩ) Channels
Audio Output	1 RCA (linear electrical level resistance: 600Ω)		
Audio Compression	Ogqorbis		
Audio Bitrate	16 Kbps		
Audio Voice Input	1 BNC (2.0Vp-p, 1KΩ)		
Hard Drive Interface	1 TB SATA Hard Drive included	1.5 TB SATA Hard Drive included	2 TB SATA Hard Drive included
Max Hard Drive Support	Up to 4 x 1000 GB (4 TB) SATA Hard Drive Disk		
DVD Writer	Included		
USB	1 USB port (USB Mouse, USB Flash Drive, USB Hard Drive or DVD-RW)		
Communication Interface	RJ-45 (Ethernet), RS232/RS485 (For PTZ/Alarm), 2 RJ-45 (keyboard controller interface)		
PTZ Control	COM Port control		
PTZ Protocol Support	Pelco D/Pelco P/Kalatel		
Network Interface	RJ-45 10/100 Ethernet		
Network Protocol	DHCP, PPPoE, Static IP, TCP/IP		
Remote Control	Included		
Mouse	Included		
Control Interface	USB Mouse, front panel, remote control (all Included)		
Video Backup Options	USB Flash Drive, USB Hard Drive, USB DVD-RW, internal DVD-RW, web browser, 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		
Mobile Phone Software	N/A		
Language	English		
ELECTRICAL & ENVIRONMENTAL			
Power Supply	100-240 VAC, 6.3 A, 50-60 Hz		
Surge Protection	Built in		
Power (without HDD)	20-58 Watts (without HDD)		
Power Consumption	37 Watts	41 Watts	44 Watts
Working Temperature	14°F to 122°F (-10°C to 50 °C)		
Working Humidity	10-90% RH		
PHYSICAL			
Weight	16.8 lb (≤7.6 Kg) without HDD and DVR-RW		
Dimension	18.5" x 3.5" x 18.5" (441 x 90 x 470 mm)		
Regulatory Type	CE, FCC, UL		
Chassis	19" Rack Standard		
Warranty (Effective Jan 1, 2009)			
4 Years			