

# DHE-ENT

## H.264/AVC Next Generation Embedded Entry-Level DVR

The most affordable H.264 DVR system from Aventura is ideal for residential and small business as well as scalable video networks for multi-site security. All entry level series Aventura DVR's feature TCP/IP networking for remote access, expanded hard disk record capacity, PTZ control, alarm and sensor input and much more.

#### Physical description

- Max 16 video in (NTSC,PAL)
- Max 4 audio in (linear in)
- 1 video out (NTSC,PAL)
- 1 audio out
- 1 10/100M ethernet
- 2 SATA, support max 2 hard disks of max 400GB each
- Max 16 alarm in
- Max 16 alarm out
- 1 RS-485 for PTZ control
- 1 RS-232
- 1 USB
- 1 VGA
- · Built-in DVD writer, USB support

#### 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 16 channels video in. Each channel can be compressed independently
- Both variable bit-rate and variable frame rate are supported.
- Support max 4 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: CIF(352x240)
- PAL: CIF(352x288)
- 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.



- . Real-time display & record
- . Up to 16 channels of audio & video
- . Supports up to 2 hard drives
- Resolutions: CIF(30 FPS 4ch) CIF(15 FPS 8 & 16ch)
- . Supports: PTZ, remote access

#### **AVAILABLE MODELS**

Part number	Description	
DHE-04-ENT	H.264/AVC Embedded DVR, 4 video and 4 audio channels with 250GB HDD, DVD Burner, 120FPS at CIF Resolution	
DHE-08-ENT	H.264/AVC Embedded DVR, 8 video channels, No audio with 500GB HDD, DVD Burner, 120FPS at CIF Resolution	
DHE-16-ENT	H.264/AVC Embedded DVR, 16 video and 4 audio channels with 750GB HDD, DVD Burner, 240FPS at CIF Resolution	

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- 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 remote DVR 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 DVR (front end)
- Supports embedded web server. Browser can be used to access 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
- Work lose frames when switch record hies
  Can install 4 HDD and each HDD supports 400GBytes
  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
- · One Channel Playback

#### 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:

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



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SPECIFICATIONS					
Model Name	DHE-04-ENT	DHE-08-ENT	DHE-16-ENT		
HARDWARE INTERFACE					
Operating System	RTOS(Real Time Operating System)				
Video System	NTSC/PAL				
Compression	H.264 AVC				
Streaming Compression	H.264 AVC Dual Streaming				
Display Resolution Record Resolution	NTSC: 704*480 (4CIF) , PAL: 704*576 (4CIF) CIF/QCIF - 352*240 (NTSC), 352*288(PAL) , QCIF 176*120 (NTSC), 176*144(PAL)				
Record Resolution	Live Preview - 120 FPS (NTSC),	Live Preview - 240 FPS (NTSC),	Live Preview - 480 FPS (NTSC),		
Display Frame Rate	100 FPS (PAL)	200 FPS (PAL)	400 FPS (PAL)		
Record Frame Rate	120 FPS Global/30 FPS per channel(NTSC), 100 FPS Global/25 FPS per channel(PAL)	120 FPS Global/15 FPS per channel(NTSC), 100 FPS Global/12.5 FPS per channel(PAL)	240 FPS Global/15 FPS per channel(NTSC), 200 FPS Global/12.5 FPS per channel(PAL		
Video Bitrate	32 Kbps-1 Mbps- User Defined/Variable				
Video Input Channels	4x BNC (1.0Vp-p 75 O ) Channels	8x BNC (1.0Vp-p 75 O ) Channels	16x BNC (1.0Vp-p 75 O ) Channels		
Video Loop Output	4x BNC Channels	8x BNC Channels	16x BNC Channels		
Video Output	1x BNC Channel (1.0Vp-p 75 O )				
Monitor Output Support	VGA				
Matrix Output		N/A			
Alarm Input	4	8	16		
Alarm Output	2	4	4		
Audio Input	4x RCA (Linear Electrical Level Resistance: $600\Omega$ )	N/A	4x RCA (Linear Electrical Level Resistance: 600Ω)		
Audio Output	1x RCA (Linear Electrical Level Resistance: 600Ω)	N/A	1x RCA (Linear Electrical Level Resistance: 600Ω)		
Audio Compression	Ogvorbis	N/A	Ogvorbis		
Audio Bitrate	16 Kbps	N/A	16Kbps		
Audio Voice Input	N/A	N/A	N/A		
Hard Drive Interface		500GB SATA Hard Drive Included	750GB SATA Hard Drive Included		
Max Hard Drive Support	Up to 2x 1000GB (2TB) SATA Hard Disk Drive				
DVD Writer	Included				
USB	1x USB (USB Mouse, USB Flash drive, USB Hard Drive or DVD-RW)				
Communication Interface	RJ-45(Ethernet), RS232/RS485 (For PTZ/Alarm)				
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 per 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 English				
Language		English			
ELECTIRCAL & ENVIRONMEN	IAL	100 240 1/40 / 2 4 50 / 2 17			
Power Supply Surge Protection	100~240 VAC, 6.3 A, 50~60 HZ  Built in				
Surge Protection Power(without HDD)	2042 W (without HDD)				
Power (without HDD)  Power Consumption	2042 W (WITHOUT HDD) 20 W-58 W				
Working Temperature	-10°C+55°C				
	10-90 RH				
Working Humidity PHYSICAL		10-90 KH			
	17 C lb (20 Kg.)				
Weight Dimension	17.6 lb (≤8 Kg ) without HDD and CD-R/W 17.3" x 15.4" x 2.8" (440 x 390 x 70 mm)				
Regulatory Type	CE, FCC, UL				
Chassis	Standard				
	2000)	Stariuaru			
Warranty (Effective Jan 1, 2	.007)				
1 Year					