CMS Series
Central Management Server

Aventura's Central Management Server manages and controls all of Aventura's as well as third party video encoding and decoding devices on a single platform through a graphical user interface. Additionally, the CMS manages third party IP devices, analytics, command and control, POS, access control, tracking and other hardware. The CMS system manages:

- PC-Based Digital Video Recorders
- Non PC-Based Digital Video Recorders
- ATM Digital Video Recorders
- Streaming Media Servers
- Mobile Digital Video Recorders
- Access Control Devices

Aventura's PC-based Central Management Server adopts a high performance Windows real-time, fault tolerant and redundant operating system and hyperthreading redundant CPU, to implement all the functions needed to build a comprehensive enterprise surveillance system.

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- **Aventura's Central Management Server manages and controls all of Aventura's video encoding and decoding devices on a single platform through a graphical user interface.**

Compression Function:

- The output video and audio streams are integrated to generate the synchronized H.264/SVC stream. Video and audio coincide with each other from beginning to end when the stream is played back
- Supports following resolution:
  PAL: 4CIF (704x576), DCIF(528x384), 2CIF(704x288), CIF (352x288), QCIF(176x144);
  NTSC: 4CIF (704x480), DCIF(528x320), 2CIF(704x240),CIF(352x240), QCIF(176x120)
- Supports multi-zone motion detection
- Supports position configurable OSD. Supports watermark

AVAILABLE MODELS

Part number	Description
CMS Series	Central Management Server with Software Licenses

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
- Supports remote control of PTZ.
- Streams can be recorded in a remote host PC
- Supports Net DVR remote upgrading
- PC hosts can gain direct control via 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

PTZ Control:

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

Alarm Functions:

- Supports Motion detection 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

PROFESSIONAL

Video Compression	H.264/SVC
Frame rate	PAL : 1/16-25 FPS Per Channel (Real-Time)
	NTSC : 1/16-30 FPS Per Channel (Real-Time)
Stream Type	Mixed stream or Video stream
Voice Audio input	(1) Channel, BNC (Linear Electrical Level - Resistance:600O)
Communication Interface	(2) RJ45 10M/100M/1000M UTP Network - (1) RS232, (1) RS485
Keyboard Interface	(1) RJ45
Serial Link Interface	(1) RJ45

SYSTEM

Motherboard & Chipset	Intel 945
CPU	Intel Core 2 Quad 2.4 GHz
RAM	2 GB DDR2 667
Storage	Up to 4 TB SATA (expandable)
Video Display	Saphire Radeon 3650HD 512 MB (Dual DVI)
OS	Windows 2000, XP
Video Compression	H.264/SVC (Multicast)
Audio Compression	OggVorbis 16 Kbps
Chasis Type	1U Rackmount
Storage Media	DVD-RW
Mouse	Optical PS/2
Keyboard	106-Key
LAN	Dual 10/100/1000 Base T Ethernet
Backup Storage	(Optional) DAT- Support IDE, SCSI, NAS, DDS3/4, RAID
Decoder	PCI-X Hardware Decoder

HARDWARE

Size	1U Chassis 17" x 7" x 18" (20" w/ handle)
Weight	35 lb
Power Supply	Redundant Max. 650 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	QCIF, CIF, 2CIF, DCIF, 4CIF
PTZ Control	PTZ GUI Interface (RS-232/422 Interface)

ALARM

Alarm Input	Via Relay Sensor
Alarm Output	Email, SMS, FTP Image Files

AUTHENTICATION

Authentication	Frame Level on DVR and exported on player
Encrypted Watermark	AES 128-bit Encryption

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 Standards	Part 15 Class-B, VCCI Class-2

Warranty (Effective Jan 1, 2009)

1 Year

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