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AVerDiGi SA RACK Series Hybrid and Real-Time Standalone DVR

Real-time Recording
Supports Megapixel, IP & Analog PTZ/ cameras

Full range of support for many of the IP camera manufactures in the market. Based on client's request, AVerMedia will be able to add new models into our support list.
AVerMedia, ACTi, AirLink, ALPHA, Allnking, AMTK, APPRO, Arecont, Asoni, AVICO, AVTECH, AVS, AXIS, BASLER, Beward, BOSCH, CANON, CAMTRON, CNB, CYNIX, Dentec, D-Link, Dynacolor, EtroVisoin, Eyeview, FLIR, FUHO, HIKVISION, Hitron, Hunt, ILink, ICanTek, Ikegami, Ioimage, IPD, IQinvison, JVC, Level-one, Lilin, Linksys, LG, Lumenera, Messoa, Mobotix, NipponSeiki, Pixord, Panasonic, Pelco, RITAR, Samsung, Sanyo, SPECO, Sony, TOSHIBA, TRUEN, Veo, Vivotek, VITOR, YOKO, Y-CAM, ZAVIO

Detailed Specifications

Model	SA6416E RACK	SA6832E RACK	SA9416H RACK
Operating system	Embedded OS		
Compression	S/W compression		H/W compression
Video format	MPEG4/H.264		H.264
Video input (IP or Analog inputs (BNC Connector))	16	32	16
Multiple-quad output	1	2	1
Display rate (NTSC/PAL)	480/400 fps	960/800 fps	480/400 fps
Recording frame rate	480/400 fps (CIF) 240/200 fps (VGA) 160/128 fps (D1)	960/800 fps (CIF) 960/800 fps (VGA) 320/ 256 fps (D1)	480/400 fps (CIF) 480/400 fps (Half D1) 480/400 fps (D1)
Audio input	16	32	16
Sensor/Relay	4/4	8/8	4/4
DVD-RW	Yes		
Removable HDD tray	1 HDD tray		
HDD support	Up to 4 HDDs	Up to 6 HDDs	Up to 5 HDDs
DOM	2G DOM		
HDD pre built-in	500GB		
H/W accessory	USB Mouse		
Ethernet	1 x RJ-45 (10/100/1000 Mbps)	2 x RJ-45 (10/100/1000 Mbps)	1 x RJ-45 (10/100/1000 Mbps)
RS232 (com port)	1		N/A
RS485	1		
e-SATA port	1		
USB 2.0	Front 2 ports, Rear 4 ports		
LCD Display	N/A		
Operation via front panel	N/A		
Dimensions (W x H x D)	482 x 133 x 529 mm		
Power	350 Watt		
Dual-monitor output	Yes		

Specifications are subject to change without prior notice

Product Illustration

The product illustration is based on SA6832E RACK

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Key Points

iSCSI Supported
Support cost-effective iSCSI storage solution enabling users to expand storage capacities and transmit recording data over network.

Built-in RS485 connector
With built-in RS485 connector, DVR can immediately integrate with RS485 interface peripheral such as PTZ, POS, and more.

POS Integration
POS Integrated on every channel along with POS database, advanced data search and keywords that can trigger alarms

Hybrid TV out & Spot monitor
Provide multiple IP and Analog channels display on CCTV monitor and pop up the channel once alarm triggered.

Hybrid Dual monitor
Support IP and Analog dual monitor environment for independent preview and playback or E-map to save your trouble switching.

AVerDiGi FaceFinder
AVerDiGi FaceFinder enables DVR to detect human face in live video and trigger instant playback from object index.

Application Diagram

Bridging the gap between IP and Analog

Key Features

AVerDiGi SA RACK series is with new 3U rack mount, delivering the most advanced features and efficient installation to meet the demands of today's multiplex applications. 16/ 32CH real-time recording and expandable up to 6 HDDs inside are exclusive features of this DVR that's on the top.

VIDEO FEATURE
- A PC-based DVR with embedded operation system
- Featured hybrid DVR to support megapixel, IP & Analog PTZ cameras
- IP/Analog PTZ camera supported and available for adding new protocols
- Video format: NTSC/ PAL
- RCA composite video out to CCTV/ TV monitor
- Support static as well as dynamic de-interlacing for smoother graphics
- Built-in noise reduction algorithm

FORENSICS
Search
- Defined parameter search by date, time, camera, area, event, vision, and log file
- Easy retrieval and playback of footage by "Bookmarking" significant segments
- Visual search breaks down video by date, hour, minute, and second

Playback
- Real-time playback without having to disable recording/network functions
- Complete playback control: playback, backward playback, fast forward/ backward playback, forward/ backward frame-by-frame playback
- True video watermark technology to prevent tampered image

Backup
- Built-in DVD-RW backup to CD/DVD
- Easily export/backup to flash memory, RAID, NAS, External HDD and internal SATA HDD by channels and hours
- iBackup software ensures easy backup and playback
- iEnhance provides highest-level video quality

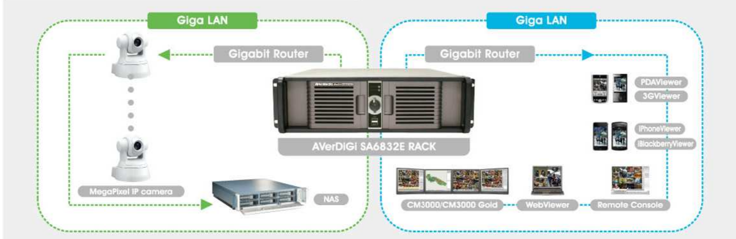
DISPLAY
- Display rate:480/400 fps (NTSC/PAL)(SA6000E RACK/ SA9416H RACK) 960/800 fps (NTSC/PAL)(SA6032E RACK)
- 16/ 32 channel video and audio inputs
- Dual monitor & hybrid Spot monitor outputs
- Multiple and configurable channels displayed on CCTV monitor
- Auto scan with full screen display under 1, 4, 8, 9, 13, 16, 32-camera display modes
- Auto Gain Control (AGC) balance image quality
- Night view ability

RECORDING
- H.264 hardware compression (SA9416H RACK only) and S/W MPEG4, H.264 compression
- Two types of de-interlace method: optimized for static scene or dynamic scene
- Alarm trigger/ Motion Detection/ Smart/ Audio Detection/ Continuous/ Schedule recording
- Video mask – prevent high activity regions from triggering motion based recording
- Intelligent shield protects privacy
- Auto recycling when storage disk is nearing full
- Live HDD size estimation tool
- Supports network storage devices

REMOTE MONITORING
- Simultaneous multiple remote live/record video
- 4 or 8 sensors in/relays out and up to 128 more with additional E-I/O box
- Totally command of up to 1000 remote systems with CM3000 Gold Central management System
- Dispatch server allows you to broadcast video stream to the public

E-map
- E-map showcasing camera, sensor, and relay positions
- Enabling to extend up to 8 maps

Alarm/Notifications
- Starting video recording on multiple cameras
- Sending footage to spot monitor
- Enlarging triggered video
- Turn relay on (light switch, alarm, etc.)
- Launching the triggered channel's corresponding E-map
- Making a phone call or playing warning sounds
- Sending emails, snapshots, and files to FTP, SMS/MMS and video to Central Management System
- Alert messages help security guard follow standard operational procedures

USER ACCESS
- Setup as many users as you like with their own individual passwords (maximum:256 accounts)
- Each user can be pre-configured to perform only certain actions (e.g. access specific cameras remotely)

Application Diagram of Dual Giga LAN