AVerDiGi IWH3216 Touch II H.264 Embedded Hybrid DVR
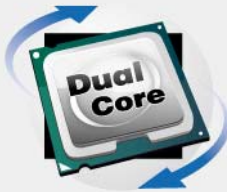
Easy Installation Design of Removable HDD Trays
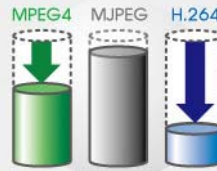Storage Management of Built-in RAID 0,1,5 Function

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, Alinking, AMTK, APPRO, Arecont, Asoni, AVICO, AVTECH, AVS, AXIS, BASLER, Beward, BOSCH, CANON, CAMTRON, CNB, CYNIX, Dentec, D-Link, Dynacolor, EtroVisioin, Eyeview, FLIR, FUHO, HIKVISION, Hitron, Hunt, iLink, iCanTek, Ikegami, Ioimage, IPD, IQinvision, JVC, Level-one, Lilin, Linksys, LG, Lumenera, Messoa, Mobotix, NipponSeki, Pixord, Panasonic, Pelco, Samsung, Sanyo, SPECO, Sony, TOSHIBA, TRUEN, Veo, Vivotek, VITOR, YOKO, Y-CAM, ZAVIO

AVerMedia

Dual Core Processor
Incorporate Intel dual-core processor which delivers significant CPU performance on multiple concurrent tasks

Hybrid DVR
16CH hybrid capability and compatibility with all major brands of IP/analog cameras (available for adding new IP camera without extra charging)

System Integration
Wide-range security deployment and intelligent video integration, such as POS machine, ATM, FaceFinder, Visual Search and PTZ Tracking

MPEG4   MJPEG   H.264

H.264 H/W Compression
Support recording rate up to H.264 240/200 FPS @ D1 resolution and provides independent dual stream for better network efficiency

Full HD 1080

HD Video Output
Supports HD IP cameras input and optimizes video output up to 1920 x 1200 display resolution that provide magnificent image quality

Center   Monitor
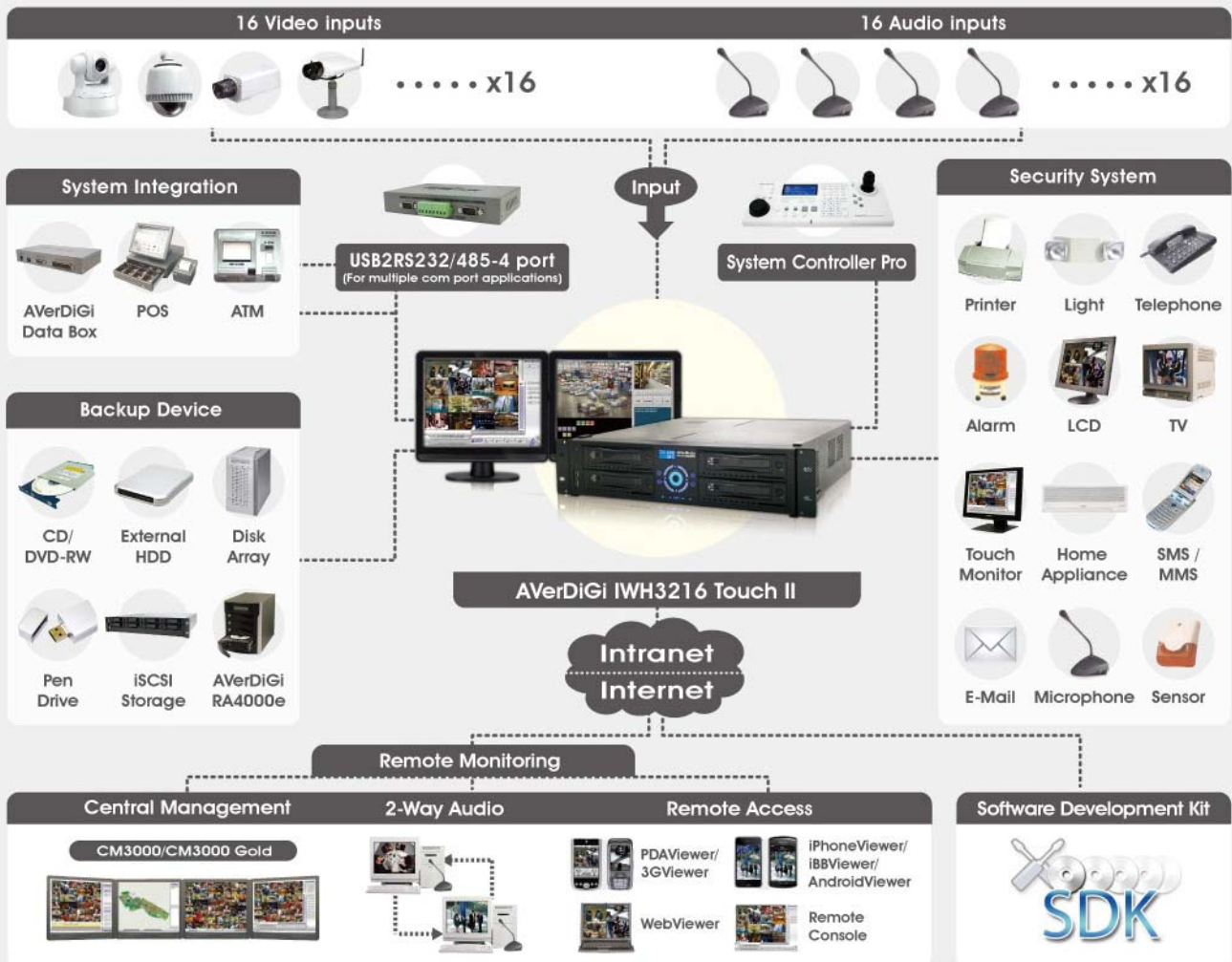Emap   Playback

Remote Access
Remote Software Integration: CM3000/CM3000 Gold, Remote Console, WebViewer, PDAViewer, iPhoneViewer, iBBViewer, AndroidViewer, 3GViewer, JavaViewer, HandyViewer, and SmartViewer

Application Diagram

16 Video inputs   16 Audio inputs
· · · · · x16   · · · · · x16

Input

System Integration
AVerDiGi Data Box   POS   ATM

USB2RS232/485-4 port
(For multiple com port applications)

System Controller Pro

Security System
Printer   Light   Telephone

Alarm   LCD   TV

Touch Monitor   Home Appliance   SMS / MMS

E-Mail   Microphone   Sensor

Backup Device
CD/ DVD-RW   External HDD   Disk Array

Pen Drive   iSCSI Storage   AVerDiGi RA4000e

AVerDiGi IWH3216 Touch II

Intranet
Internet

Remote Monitoring

Central Management
CM3000/CM3000 Gold

2-Way Audio

Remote Access
PDAViewer/ 3GViewer

iPhoneViewer/ iBBViewer/ AndroidViewer

WebViewer   Remote Console

Software Development Kit
SDK

Key Features

AVerDiGi IWH3216 Touch II incorporated the latest dual core processor specification that delivers significant CPU performance on multiple concurrent tasks and outstanding video quality. The shining ocean-blue light, sensitive touch front panel and slick-look exterior as well as dual touch monitor support, have made AVerDiGi IWH3216 Touch II the most efficient and user-friendly DVR in the market.

VIDEO FEATURE
- A DVR embedded with Windows operating system
- Featured hybrid DVR to support 16 channels IP and/or analog cameras
- IP/Analog PTZ camera supported and available for adding new protocols
- Video format: NTSC/ PAL
- Support 352x240/352x288, 720x240/720x288 or 720x480/720x576 resolutions (NTSC/PAL)
- 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

Backup
- 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

REMOTE MONITORING
- Simultaneous multiple remote live/record video
- 16 sensors in/4 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
- 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

RECORDING
- H.264 hardware compression
- Recording rate: 480/400(CIF), 240/200 FPS (D1)
- 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
- Auto recycling when storage disk is nearing full
- Live HDD size estimation tool
- Supports network storage devices

DISPLAY
- Display rate: 480/400 FPS (NTSC/PAL)
- 16 channel video and audio inputs
- Dual touch-monitor output
- Auto scan with full screen display under 1, 4, 8, 9, 13, 16-camera display modes
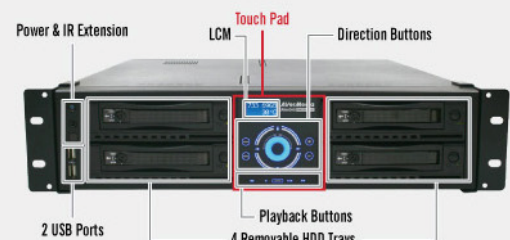- Night view ability

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)
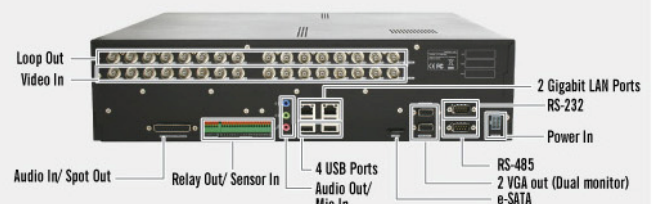
Product Illustration

IWH3216 Touch II

Front

Power & IR Extension · LCM · Touch Pad · Direction Buttons · 2 USB Ports · Playback Buttons · 4 Removable HDD Trays

Rear

Loop Out · Video In · 2 Gigabit LAN Ports · RS-232 · Power In · Audio In/ Spot Out · Relay Out/ Sensor In · 4 USB Ports · Audio Out/ Mic In · RS-485 · 2 VGA out (Dual monitor) · e-SATA

Detailed Specifications

Product Name	IWH3216 Touch II
Operating system	Embedded OS
Compression	H/W H.264
Video input	16
Audio input/Audio output/Mic.input	16/1/1
IP Cam Support	16
Video loop output	16
SPOT Output	2 independent analog video output
VGA Output	2 (VGA 1: Up to 1920 x 1200, VGA 2: 1280 x 1024)
Dual-monitor output	Yes
Display rate (NTSC/PAL)	480/400 FPS
Recording frame rate (CIF)	480/400 FPS
Recording frame rate (D1)	240/200 FPS
Accessory	
H/W accessory	Audio cable, USB mouse, RS-485 cable
Optional accessory	RACK ears, Data Box, System Controller Pro, RAID, 17"/19" Touch Monitor, USB2RS232/485-4 ports, E-IO Box
Connectors	
Ethernet	2 ports,RJ-45, 10/100/1000 Mbps
RS485	1
RS232	1
e-SATA port	1
USB 2.0	Front 2 ports, Rear 4 ports
Sensor/Relay	16/4
Front Panel	
Touch pad	Yes
Operation via front panel	Yes
HDD Tray	4
Remote Management	
Central Management	CM3000/CM3000 Gold (up to 1000 DVRs), Remote iMatrix, Remote Console
Remote DVR Connectivity	WebViewer, JavaViewer, iPhoneViewer, iBBViewer, AndroidViewer, 3GViewer, JavaViewer, HandyViewer, and SmartViewer
Unit Standards	
DVD-RW	N/A
Removable HDD tray	Yes
DOM	2GB
HDD	Support up to 4 internal SATA HDD and 1 e-SATA connector for external SATA HDD
Dimensions (W x H x D)	430 x 110 x 420 mm
Power	120W Power adaptor, 19V DC
Software	
Dispatch Server	Balance DVR communication for added client access and greater data transfer speeds
iPOS Function	Advanced tool for POS management that allows transaction data searches right from live monitoring screen
IP PTZ control/tracking	Zoom-in/out, Focus in/out, Direction, Speed, Preset point, Autopan, Moving object tracking
iEnhance	Enhance video quality such as brightness/Contrast/Hue/Saturation/Noise reduction/ De-interlace/Gray scale of recorded video
iStable	One-click fix for shaky video caused by camera movement and jolts
Remote Setup/backup	Make system changes and backup remotely
Image Verification	A watermark-checking program to identify the authenticity of a saved image (e.g. by snapshot)

Specifications are subject to change without prior notice